ProSYS.freeCom

Integrated Security Systems

Installation and Programming Manual

ProSYS version 7.xx

RISCO GROUP

Creating Security Solutions. *With Care.*

riscogroup.com

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CE Declaration of Conformity

Hereby, RISCO Group declares that this control panel (ProSYS 128, ProSYS 40, ProSYS 16), with wired accessories (including cables) and wireless accessories, is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

For the CE Declaration of Conformity please refer to our website: www.riscogroup.com.

Compliance Statement

Hereby, RISCO Group declares that the ProSYS series of control panels and accessories are suitable for use in systems designed to comply with PD6662:2004 Security Grade 3, Environmental Class II. (Security Grade 2 when using Wireless accessories).

The ProSYS series of control panels and accessories comply with the relevant parts of the EN50131 series of standards.

The ProSYS series of control panels and accessories comply with DD243:2004

Table of Contents

Chapter 1: Introducing ProSYS

This chapter provides a basic introduction to the ProSYS system and its architecture and capabilities, as described in the following sections:

What is ProSYS?

ProSYS is an integrated security system with unrivalled flexibility and advanced expansion capabilities, together with being simple to install, program and maintain.

ProSYS features integrated Dual-Path and Triple-Path reporting, with integrated Advanced Communication Modules (ACM) for IP communication, Advanced GSM/GPRS modules (AGM) for advanced cellular communication all in one box, and an IP/GSM Receiver package for Monitoring Stations (MS).

Additional accessories include integrated Access Control, Interactive Voice Module, 868/433 MHz Wireless expansion, Bus detectors providing Remote Control & Diagnostics, Program Transfer Module, Printer adaptors for parallel printers and more.

ProSYS provides a new level of remote service and installation convenience, with unique Remote Diagnostic capabilities, Auto-Install™ Technology and Bus Test which checks communication quality of the bus and enables pinpointing intermittent wiring faults.

ProSYS can be programmed and/or controlled through the Upload/Download software installed on a PC computer with a Windows operating system.

Installing ProSYS

This ProSYS Installation and Programming Manual details how to install the ProSYS hardware and to program the ProSYS Main Panel, as described in the following main steps:

- **Step 1: Mounting the Main Panel** (Chapter 2)
- **Step 2: Wiring the Main Panel** (Chapter 2)
- **Step 3: Identifying and Wiring Keypads and Expansion Modules** (Chapter 3)
- **Step 4: Adding Modules** (Chapter 3)
- **Step 5: Applying Power** (Chapter 3)
- **Step 6: Programming the ProSYS** (Chapters 4 and 5)
- **Step 7: Programming within the User Functions Mode** (Chapter 6)

NOTE:

While this manual describes all of the above steps, the section on programming the Main Panel comprises the bulk of the information, as it covers all the programmable functions that can be performed using the keypad.

ETL NOTE:

This document describes how to install, wire and program the ProSYS security system and the accessories attached, to comply with UL compatible standards as tested and listed by ETL.

The system is listed to the following standards:

- Central-Station Burglar Alarm Units, ANSI/UL 1610
- Digital Alarm Communicator System Units - ANSI/UL1635
- Police Station Connected Burglar Alarm Units and Systems - ANSI/UL365, Household
- Fire Warning System Units - ANSI/UL985
- Proprietary Burglar Alarm Units and Systems ANSI/UL1076
- Household Burglar-Alarm System Units, ANSI/UL 1023
- Preliminary Standard for Household Burglar Alarm System Units - ULC C1023 Standard for Residential Fire Warning System Control Units - ULC-S545-02

About Wire

The proper use of wire and cable is necessary for the successful installation and operation of the ProSYS system. It is important to select wire of the correct thickness to minimize power loss and ensure reliable system operation. Take into account both the installation's current requirements and the wiring distances involved. The following tables provide useful information to help make your installation trouble-free.

ETL NOTES:

Wiring shall be done according to the National Electrical code ANSI/NFPA 70. Use a min gauge of 22AWG for all wiring.

Make sure to route wires away from any sharp edges or other parts which can cause.

AWG Gauge Size	Wire Diameter		Resistance: Feet		Resistance: Meters	
	Inches	Millimeters	Ω Per Foot	Ω Per 1000 Feet	Ω Per Meter	Ω Per 100 Meters
24	0.020	0.50	0.026	26.0	0.085	8.5
22	0.025	0.64	0.016	16.0	0.052	5.2
20	0.031	0.80	0.010	10.0	0.032	3.2
19	0.035	0.90	0.008	8.0	0.026	2.6
18	0.040	1.00	0.006	6.0	0.020	2.0
16	0.050	1.27	0.004	4.0	0.013	1.3
14	0.064	1.63	0.0025	2.5	0.008	0.82

Table 1-1: Wire Facts

One-Way Wire Distance Between ProSYS and Plug-In Transformer		AWG (American Wire Gauge) For best results use the indicated wire size or larger (numerically lower) size				
In Feet	**In Meters**	**22**	**20**	**18**	**16**	**14**
Up to 15 feet	Up to 5 meters	✓				
15 - 25 feet	5 - 8 meters		✓			
25 - 40 feet	8 - 12 meters			✓		
40 - 60 feet	12 - 20 meters				✓	
60 - 100 feet	20 - 30 meters					✓

Table 1-2: Wiring Between the ProSYS Main Panel and the 16.5 VAC/40VA Plug-In Transformer

Wire Gauge		Max Combined Length of ALL Expansion BUS Wiring	
24 AWG	7/02mm	150 meters	492 feet
22 AWG	16/02mm	200 meters	656 feet
20 AWG	24/02mm	333 meters	1092 feet
19 AWG	28/02mm	400 meters	1312 feet

Table 1-3: Wire Gauge

NOTES:

For maximum system stability, it is best **NOT** to exceed a total of 300 meters (1000 feet) of wire when wiring the Expansion BUS.

For a distance of more than 300 meters, refer to RISCO Group's customer support service for detailed information.

Total Auxiliary Power (Max Current Draw per Branch)	Desired Wire Gauge in Particular Branch									
	32/02 mm 18 AWG		28/02 mm 19 AWG		24/02 mm 20 AWG		16/02 mm 22 AWG		7/02 mm 24 AWG	
	Max Run		Max Run		Max Run		Max Run		Max Run	
	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet
20mA	1195	3920	945	3100	750	2460	472	1550	296	970
30mA	793	2600	628	2060	500	1640	314	1030	197	646
40mA	597	1960	472	1550	375	1230	236	775	148	485
50mA	478	1568	378	1240	300	984	189	620	118	388
60mA	296	1300	314	1030	250	820	157	515	98	323
70mA	341	1120	270	886	214	703	135	443	84	277
80mA	299	980	237	775	187	615	118	388	74	243
90mA	264	867	209	687	166	547	105	343	66	215
100mA	239	784	189	620	123	492	94	310	59	194

Table 1-4: Total Auxiliary Power

NOTE:

The wire lengths indicated represent the one-way distance between the source of power and the last detector in the branch.

Max External Siren Current (Max current draw per branch)	Desired Wire Gauge in Particular Branch							
	32/02 mm		28/02 mm		24/02 mm		16/02 mm	
	Max Run		Max Run		Max Run		Max Run	
	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet
100mA	238	780	191	625	151	495	94	310
200mA	229	390	95	313	76	248	47	155
300mA	79	260	63	208	50	165	31	103
400mA	59	195	48	157	38	124	24	78
500mA	48	156	38	125	30	99	19	62
650mA	37	120	29	96	23	76	15	48

Table 1-5: Maximum External Siren Current

NOTE:

The wire lengths indicated represent the one-way distance between the ProSYS and the external siren in the branch.

ProSYS Architecture and Capabilities

The following diagram provides an overview of the ProSYS's architecture and capabilities. Examine this figure before beginning your ProSYS installation to obtain an overall picture of the full extent of the ProSYS system's capabilities.

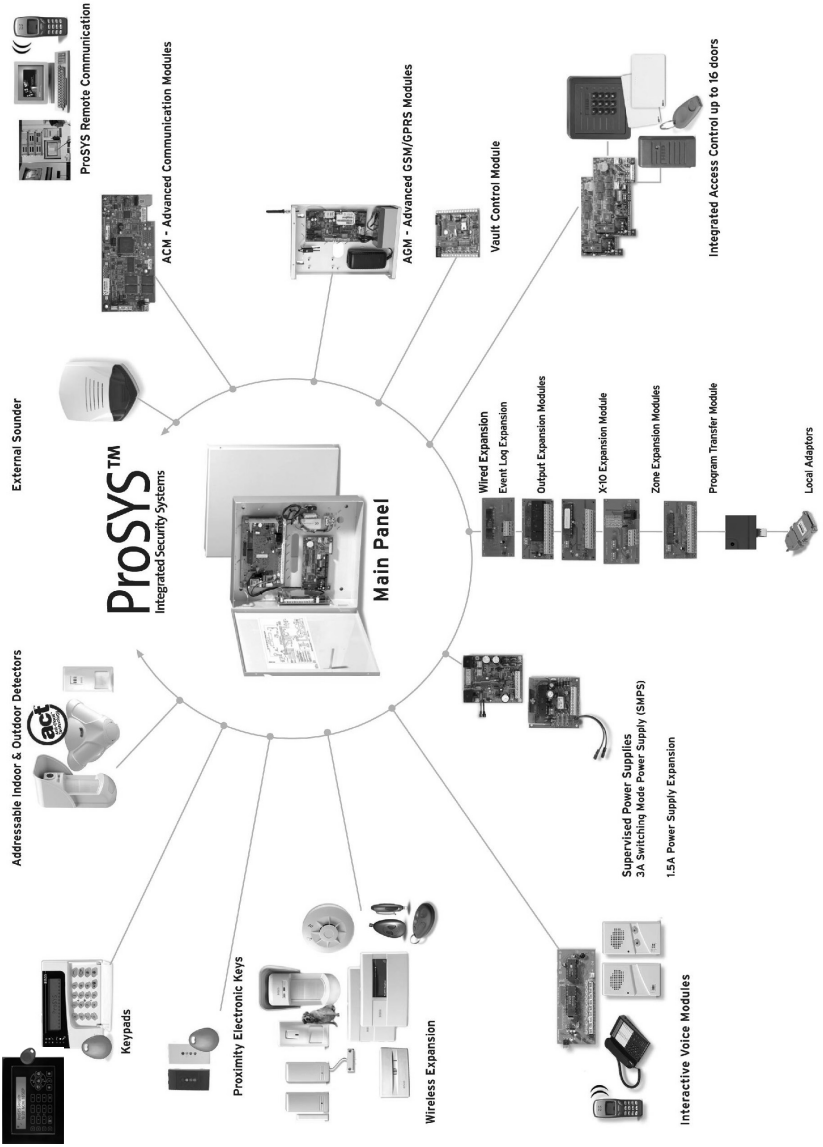


Figure 1-1: ProSYS Architecture and Capabilities

ProSYS Features

This section describes the features of the ProSYS system, including features specific to each ProSYS model.

Feature-Specific Limitations

Each ProSYS model has several feature-specific limitations, as described in the following table:

Feature	ProSYS 16	ProSYS 40	ProSYS 128
Total Zones	8-16	8-40	8-128
Main Expansion Zones (wired or wireless)	1x8 (EZ or WR)	4x8 or 2x16 or 2x8 + 1x16 (EX or WR)	1x8 + 7x16 (EX or WR)
Max BUS Zones	16	32	32
Max Current	1,5 A	1,5 A	1,5 A
Number of Expansion BUSes	2	2	2
Total Number of Expansion Modules	64 (32 for each data BUS)	64 (32 for each data BUS)	64 (32 for each data BUS)
Box NC Tamper Input	1	1	1
Bell Tamper EOL Input	1	1	1
Total Utility Outputs	6-22	6-38	6-70
Utility Output Expansion Modules	Up to 2 modules (max 16 UO)	Up to 4 modules (max 32 UO)	Up to 8 modules (max 64 UO)
Partitions/Areas	4	4	8
Groups Per Partition/Area	4	4	4
User Codes	00-29	00-59	00-98
Access Control Modules (# of Doors)	2 (4 doors)	4 (8 doors)	8 (16 doors)
Proximity Key Reader	16	16	16
Keypads	8	12	16
Account Numbers	8	8	12
Follow Me Numbers	8	8	16
Event Log	256 Built-in (No Possible Expansion)	512 (with Expansion)	999 (with Expansion)
GSM/GPRS Communication Module	1	1	1
IP Communication Interface (ACM)	1	1	1

NOTES:

The zone expansion modules can be either with wire or wireless.

All panels can work with a battery of up to 17AH according to the applicable regulations.

The relay output should have the option to supply COM positive -12V or negative -0V.

Main Panel

The Main Panel is the foundation of the system's operation and has the following features:

- 8 basic hardwired zones
- 6 Utility Outputs:
  - 1 x relay (programmable output) (3 Amps)
  - 1 x 500mA transistor (Open Collector)
  - 4 x 70mA transistors (Open Collector)
- Box tamper input (normally open)
- Bell tamper input (using a 2.2KΩ end-of-line resistor)
- Two different 4-wire BUSes with "quick connectors" from the Main Panel, which is the initial point for all system. If one BUS is shorted or there is any kind of problem that interrupts the BUS data, the other one continues to operate normally
- Power for the operation of an external sounder
- Offers the required type of voltage for one or more electronic sirens, bells, or loudspeakers, respectively
- Supports more than 20 zone types
- 6 zone terminations, including: closed-circuit (NC), open-circuit (NO), end-of-line (EOL) resistors, double end-of-line (DEOL) resistors, triple end-of-line (TEOL) resistors (refer also to *Chapter 2, Mounting and Wiring the Main Panel*) and BUS zone.
- Event log (on board up to 256 events)

Zone Expansion

- Support for additional 16 (ProSYS 16), 32 (ProSYS 40) or 120 (ProSYS 128) wired or wireless zones
- 8-Zone or 16-Zone wired/wireless-868MHz expansion modules
- 6 zone terminations, including closed-circuit (NC), open-circuit (NO), end-of-line (EOL) resistors, double end-of-line (DEOL) resistors and triple end-of line(TEOL) resistors
- BUS zones support and BUS Zones expander
- Supports more than 20 zone types
- Forced setting zone capability

Wireless Devices

When using wireless zones, the ProSYS 8/16 Wireless expansion modules respond to different wireless detectors, such as:

- PIR/PET detectors
- Smoke detectors
- Door contacts/Door magnet/universal transmitter/door contact +universal
- Up to 32 rolling code 4-buttons keyfobs
- Double key panic keyfob
- Flood detector
- Shock detectors
- CO detectors
- Gas detectors
- Glassbreak detectors
- External PIR WatchOUT detectors

The Wireless expansion module includes the following features:

- Super heterodyne technology
- Programmable supervision time
- Tamper detection
- Low battery in transmitters detection
- Signal jamming indication
- Programmable supervision time

Partitions/Areas

- Up to 8 independent partitions/areas
- Any zone can be assigned to any partition/area
- Each partition/area supports both zone sharing and cross zoning.
- Each partition/area can be assigned with its own account number

Groups

Groups are combined zones within a partition/area that are used for partial arming.

- Up to four groups of zones can be defined for each partition/area.
- Group arming is performed by using the Function keys on the keypad (A, B, C, and D). Each key represents a different group of zones.
- Each zone can be assigned to any of the 4 groups
- Users can arm any of the four groups individually
- Group setting is performed by using the function keys on the keypad or using a keyfob

Keypads

The ProSYS can support up to 16 keypads, with a choice of four styles (LCD, two LED types, and one LCD proximity type) from which virtually all system features can be accessed.

Figure 1-2: LCD Keypad

Each keypad is equipped with:

- Three Emergency Key zones (Panic, Fire, and Auxiliary Emergency)
- The ability to produce a Duress (Ambush) Code
- Double tamper-protected
- Internal buzzer
- Audible feedback for keypad operations
- Easy-to-use *hot-key* sequences for simple zone bypassing
- A one-key Quick-Arm feature for both "Stay" and "Away"
- In partitioned systems, keypads can be selectively assigned to specific partitions
- 4 function keys (A,B,C,D) can be programmed to carry a sequence of commands

User Codes and Authority Levels

- 1 engineer code
- 1 sub engineer code
- 1 Grand Master code
- Up to 99 user codes (ProSYS 128)
- 8 Authority levels
- Double code option for high security
- Codes can be defined to 4 or 6 digits (By default 6 digits)

Programmable Utility Outputs

- Supports additional 16 (ProSYS 16), 32 (ProSYS 40) or 64 (ProSYS 128) outputs
- 4-relay or 8-transistor expansion output modules
- Outputs operation follows system events, codes or scheduling programs.
- Output can follow up to 5 zone events (All/Any definition)
- X-10 Module: The ProSYS also supports the connection of an X-10 Transmitter module to its 4-wire Expansion BUS. X-10 technology converts the ProSYS's programmable output events into a protocol understood by the Transmitter module. When triggered, this module generates activation and control signals along existing AC premises wiring to the appropriate X-10 Receiver modules, appropriately placed and connected within the premises to control lighting and appliances. X-10 Transmitter modules are available for the ProSYS, supporting either 8- or 16-premises Receiver modules.

Communication

- On-board Digital Communicator
- Numerous transmission formats to MS including ADEMCO Contact ID and SIA.
- Account number for each partition with additional backup accounts.
- 3 MS link up options using:
  - PSTN report
  - GSM report
  - IP report
  - GPRS report
  - SMS report
- Flexible split reporting for backup
- Call Save mode from which non-urgent reports can be collected over a designated time period and then transmitted all at once (windowing), and support daily system testing, along with reports of entry into, and exit from, the system's Installer Programming mode
- Follow Me report: In addition to standard communication with the MS, the ProSYS employs a Follow-Me feature in which the system can report a homeowner at work, or a business owner at home, that there has been an alarm at a specific location by voice message over the phone, SMS or Email.

Advanced Digital Voice Module

The Advanced Digital Voice module provides audible information about the status of your ProSYS system and enables any remote, touch-tone (DTMF) telephone to act as a keypad for the system. The Advanced Digital Voice Module can be used in the following situations:

- Upon event occurrence, such as alarm activation, the Advanced Digital Voice module informs you of a security situation, such as intrusion or fire, by calling you and playing a pre-recorded Event announcement. You can then acknowledge the event and remotely operate the system.
- Remotely operating the system, which includes:
  - Partition arming and disarming
  - Zone bypassing
  - UO activation/deactivation
  - Changing Follow-Me numbers
  - Performing Listen and Talk options that enable you to listen in to your property and talk back, if necessary

Power Supply Expansion Module

Although the ProSYS's Main Panel provides 600mA of auxiliary power (900mA for Bell), the use of a number of additional system modules and detectors will likely exceed this limitation. As a result, the ProSYS permits the addition of up to eight remote Power Supply expansion modules, each operating from AC power and connected to the BUS.

There are 2 types of power supply modules. One provides a total current capacity of 1.5 Amps and the other is a switched power supply that provides a total current capacity of 3 Amps. Both modules have connections for powering auxiliary devices and triggering bells, electronic sirens, or loudspeakers during an alarm. Each Power Supply expansion module also supports its own standby battery and is supervised for the loss of AC, a low battery condition, tamper input, the failure of its auxiliary output power, and the loss of sounder loop integrity.

Access Control Expansion Module

One of ProSYS's most unique features is its integration with an Access Control sub-system. With a maximum connection of eight such Access Control modules, a total of 16 readers is possible (each module supporting up to two readers). Each reader can operate with magnetic, proximity, bar code, touch, and/or Weigand technology. Up to 999 users can be accommodated, and up to 1000 "transactions" can be stored in a module.

Scheduling

Through the use of the system's built-in clock, it is possible to automate system operations at the same time on selected days of the week or at a specific time within the subsequent 24-hour period or during vacation periods.

The system operations include:

- Scheduling automatic arming and disarming (of one or more partitions).
- Scheduling automatic operation of Utility Outputs.
- Restricting users from disarming during predefined time periods.

Event Logging

The ProSYS has the capability of storing up to 999 significant events, including arming, disarming, bypassing, alarms, troubles, restorals, and resets. These events are logged in order according to date and time, and when applicable, according to Zone, Partition, Area, User Code, Keypad, etc. When appropriate, such events can be displayed on an LCD keypad or uploaded to the MS via the Upload/Download software and printed for further analysis.

Printer Module

A Printer module, designed to interface between the ProSYS's 4-wire Expansion BUS and a Centronics-type parallel printer, enables the printing of all significant system events as they occur, including access control activities, if applicable. Each event includes the date, time and if applicable, the affected partition and the user involved.

Advanced Installation Tools

- Auto Installation: For quick and easy installation, the system performs automatic installation of the modules connected to the BUS. The system searches for the modules by automatically verifying their connection and operation through the BUS-scanning feature and prompts the user to approve each module connection. The auto installation feature is performed automatically after defaulting the system or can also be performed manually.
- Self Monitoring
  - The BUS Test enables the system to verify the connection and the operation of the modules connected to the BUS by indicating the efficiency of each one on a 0-100% scale. Each result is individually displayed on the LCD keypad (or via the Upload/Download software).
  - A watchdog feature, which periodically and automatically performs a comprehensive self-test and reports when operating faults are found.
  - A Maintenance Mode which, when selected, performs an active self-check on many of its components.
  - One-man walk testing capabilities, enabling an Installer or technician to check the operation of each contact and detector which, when tripped, produces audible feedback and is visibly logged at the keypad from which the test was initiated.
- System programming
  - Local keypad keys
  - Program Transfer Module: Used to store the programmed configuration of any ProSYS without the need for power.
  - Local/Remote Upload/Download software

False Alarm Reduction

In an effort to deter false alarms, the ProSYS provides various programmable features, including the following programmable features: cross zoning, swinger shutdown, audible/visual entry/exit delays, fire alarm verification, dialer delay before an alarm transmission, cancel report option, double knock, soak test and exit termination zone.

Chapter 2: Mounting and Wiring the Main Panel

This chapter covers the first two steps of the ProSYS installation procedure, as follows:

- **Step 1: Mounting the Main Panel**, below
- **Step 2: Wiring the Main Panel**, page 2-3

Step 1: Mounting the Main Panel

The ProSYS Main Panel . should be installed inside a metal box Attach the box to the wall using the proper hardware, as shown below.

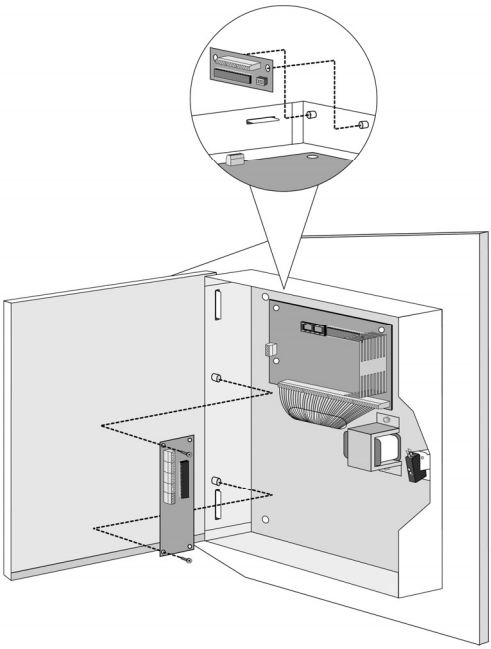


Figure 2-1: Mounting the Main Panel

The mounting location should be:

- Dry.
- Near an AC power supply (switched off).
- With a good earth connection.
- With access to the customer's phone lines.

Safety Precautions

When mounting the Main Panel, the following safety precautions are relevant:

- When the Main Panel is powered on, mains voltage is present on the main PCB. To prevent risk of electric shock, disconnect all power (AC transformer and battery) and phone cords before servicing. Under no circumstances should mains power be connected to the PCB other than to the main terminal block.
- For AC mains connection, a readily accessible disconnect device shall be incorporated in the building installation wiring.
- The equipment should be installed in accordance with the National Fire Protection Association's Standard #74 (N.F.P.A. Batterymarch Park, Qulncy, MA 02269) and local National Electrical Codes.
- For continued protection against risk of fire, replace fuses only with fuses of the same type and rating.
- There is a risk of explosion if a battery is replaced with an incorrect type. Dispose of used batteries according to the proper instructions. (The Main Panel is designed to work with a 12 V, 7 Amp-hour sealed lead battery as a backup for the primary power supply.)
- Do no short the terminals of the transformer together. This causes the internal fuse to blow. The transformer must be connected to a 230 VAC, 24-hour outlet not controlled by a switch other than an approved over-current protection device.
- The Main Panel is designed with reverse polarity protection on the battery charging circuit. However, prolonged improper connection of the battery to the Main Panel will result in damage. The power should remain disconnected until all connections have been made and checked for accuracy.

Discharging Static Electricity

Please note that it is important to discharge static electricity that may have built up in your body before you touch a circuit. To do this, touch the earth. (Refer also to *What Makes a Good Ground?* in *Chapter 2, Mounting and Wiring the Main Panel*.)

Following Local Regulations

Be sure to follow your local regulations regarding fire protection, electrical installation, noise pollution, and security systems installation.

What Makes a Good Ground?

Grounding provides a degree of protection against lightning and induced transients for any piece of electronic equipment that may, due to lightning or static discharge, experience permanent or general malfunctions. The ideal *ground* is considered to be a *unified earth ground* in which an 8-foot copper-clad rod, located close to the existing power and telephone ground rods, is sunk several feet into the earth. Appropriate hardware and clamps are then used to electrically connect each of these rods together and then to the ground terminal of the device to be protected.

It may be possible to use an existing electrical ground on the premises if one is close enough to the Main Panel. Ideally, that ground can be obtained at the metal service panel where the incoming electrical power originates. When connecting the ground wire, use a solid 14-gauge wire [or larger (numerically *lowe*r) size] connected between the ProSYS's GND terminal and an acceptable electrical ground connection. Keep this wire as short as possible and do not run it in conduit, coil it, bend it sharply, or run it alongside other wiring. If you must bend it or change its direction, it should have a radius of at least 8 inches at the point from which it is bent. If in doubt, you may want to enlist the help of a licensed electrician in matters concerning such grounding.

Step 2: Wiring the Main Panel

This step explains the various wiring and connection procedures that must be performed when wiring the Main Panel, as follows:

IMPORTANT: Before wiring the Main Panel, ensure that the connection to the power supplies, mains or battery, is switched OFF during wiring.

Wiring the Main Panel

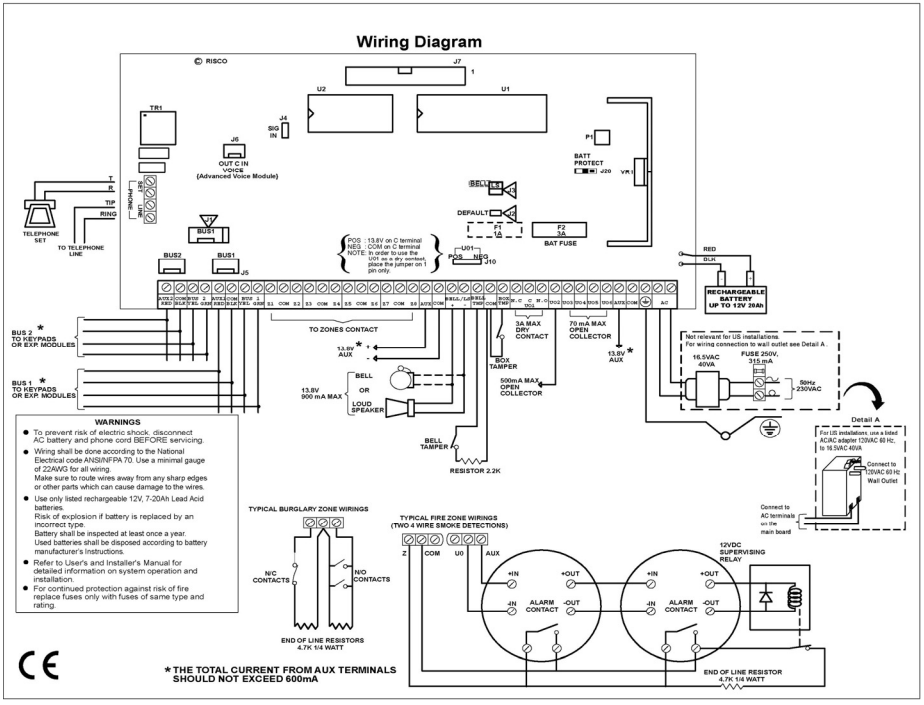


Figure 2-2: Main Panel Wiring Diagram

The second set of four terminals on the left of the Main Panel represent the Expansion BUS. These support the connection of keypads and expansion modules.

The connections are terminal-to-terminal with color-coded wires, as follows:

BUS Terminal	Description
AUX RED	+12V power for BUS expansion modules
COM BLK	Black 0V common for BUS expansion modules
BUS YEL	Yellow DATA connection for BUS expansion modules
BUS GRN	Green DATA connection for BUS expansion modules

To prevent a possible drop in voltage due to multiple keypads and long wire runs, use a quality 4-conductor cable with an appropriate gauge size (refer to the table of gauge sizes in *Chapter 1, Introducing ProSYS*).

The parallel wiring system supports parallel connections from any point along the wiring (refer to *Figure 2-3* below). The maximum wire run permitted is 300 meters (1000 feet) for all legs of the BUS.

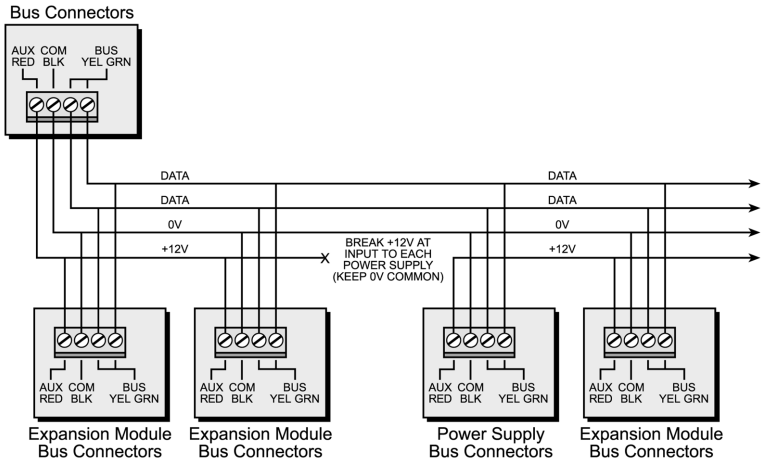


Figure 2-3: 4-Wire Expansion BUS

NOTE:

The ProSYS has 2 separate BUS connections. If one BUS is shorted or there is any kind of problem that interrupts the BUS data, the other BUS will continue to operate normally.

Wiring the Zones to Sensors and Detectors (Zone Terminals Z1 through Z8)

➢ **To wire the zones to sensors and detectors:**

1. Connect up to 8 hardwired zones, using twisted-pair or 4-conductor cable wiring.
2. Connect each zone to the appropriate Zone (Z) terminal and its related COM terminal. Each pair of zones shares a COM terminal. For example, Z1 and Z2 share a COM terminal, as do Z3 and Z4, and so on.

NOTES:

It is recommended that you use an End-of-Line Resistor at the far end of each hardwired zone to prevent short-circuits (16 resistors are supplied).

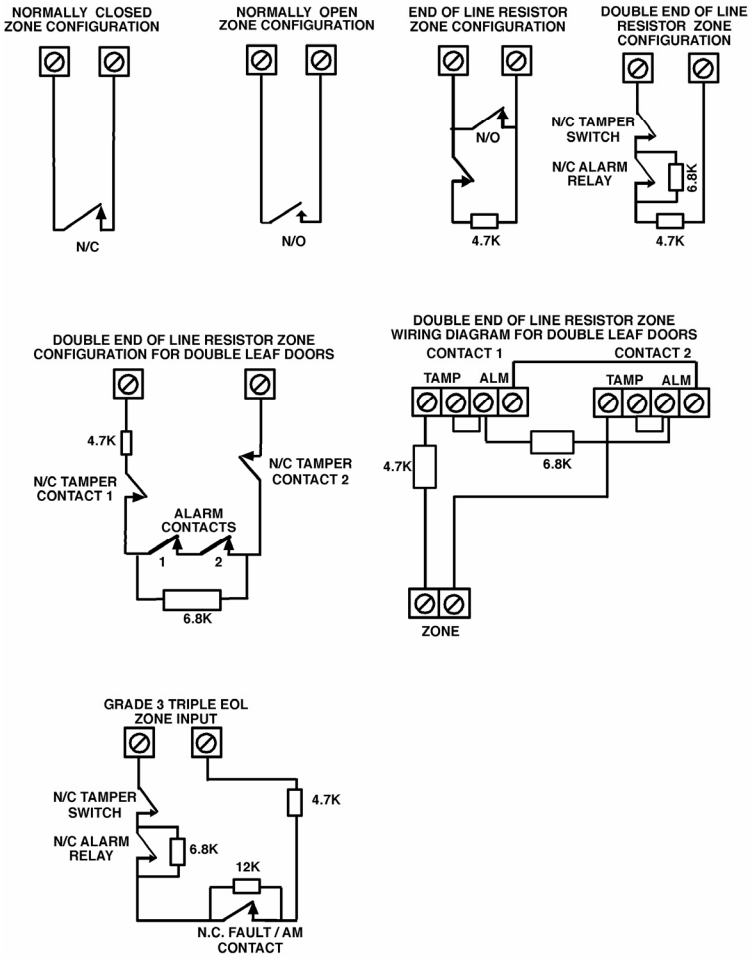
For a zone with a tamper switch, you can use a Double End-of-Line Resistor to save additional Main Panel connections (refer to

Figure 2-4 on page 2-6).

3. Terminate unused zones at the Main Panel.
4. Connect the power to the sensors and/or detectors, as described in *Wiring the Auxiliary Devices*, page 2-6.

The following diagrams illustrate the various possible zone connections depending on the zone expanders.

Connection on the main units or on the G3 zone expanders (ProSYS EZ8G3, EZ16G3):



Connections on Zone Expanders (ProSYS EZ8, ProSYS EZ16):

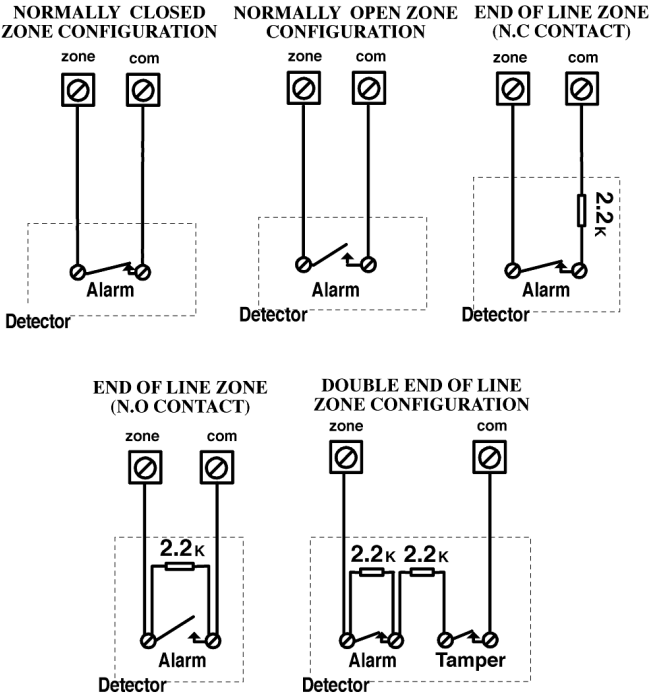


Figure 2-4: Zone Connection Diagrams

Wiring the Auxiliary Devices

➢ **To wire auxiliary devices:**

♦ Use the **Auxiliary Power AUX (+) COM (-)** terminals to power PIRs, glass-break detectors (4-wire types), smoke detectors, audio switches, photoelectric systems and/or any device that requires a 12V DC power supply.

NOTES:

The total power from the **AUX** terminals should not exceed 600mA.

To connect a 4-wire smoke detector or devices that require resetting after an alarm condition, connect the Auxiliary power **AUX** and UO terminals (refer to *Figure 2-2* on page 2-3, for smoke detector wiring). Remember to define the UO as Switched Auxiliary (refer to the **Switch AUX** parameter described in *Chapter 5, Quick Key [3][1][14]*). *Using the Installer Programming Menus*).

In addition, when connecting a 4-wire smoke detector, observe the wiring guidelines mentioned in the previous sections, along with any local requirements applicable to smoke detectors.

To prevent a possible drop in voltage due to current requirements and distances involved, make sure to use the appropriate wire gauge (refer to the table of gauge sizes in *Chapter 1, Introducing ProSYS*).

To increase your power supply when employing multiple auxiliary devices, you can use the optional Power Supply expansion module (refer to the *Wiring Power Supply Expansion Modules* section in *Chapter 3*, *Installing External Modules and Devices*).

If the auxiliary outputs are overloaded (exceed 600mA) and are shut down, you must disconnect all loads from the outputs for a period of at least 10 seconds before you reconnect any load to the auxiliary outputs.

Wiring the Bell Sounders

➢ **To wire the bell sounders:**

1. Connect a suitable wire to the internal sounding device(s) inside the building (bell, electronic siren, or loudspeaker).
2. Ensure that you note the polarity when connecting electronic siren(s) and/or polarized bells.

⚠ **WARNING:**

To avoid Bell Loop Trouble, if **NO** connection is made to an internal sounder, use a 2200Ω resistor in its place.

NOTE:

It is important to position the **BELL/LS Jumper (J3)** correctly. The position varies depending on the type of internal sounder.

3. For a loudspeaker without a built-in sound driver, position the jumper J3 so that it covers both pins. The Main Panel produces a continuous oscillating voltage for burglary and panic alarms and an interrupted oscillating voltage for fire alarms.
4. For a bell or an electronic siren with a built-in sound driver, position the jumper J3 so that it does NOT cover both pins. A steady 12V DC is produced at the sounder terminals during burglary and panic alarms. A slow pulsing voltage is produced during a fire alarm.

Wiring the Bell Tamper

➢ **To wire the bell tamper:**

- Connect the bell tamper to the **BELL TMP** and **COM** terminals on the Main Panel, as illustrated in *Figure 2-2* on page 2-3.

Wiring the Box Tamper

➢ **To wire the box tamper:**

♦ Connect the box tamper to the **BOX TMP** and **COM** terminals on the Main Panel, as illustrated in *Figure 2-2* on page 2-3. Refer also to the diagram shown below.

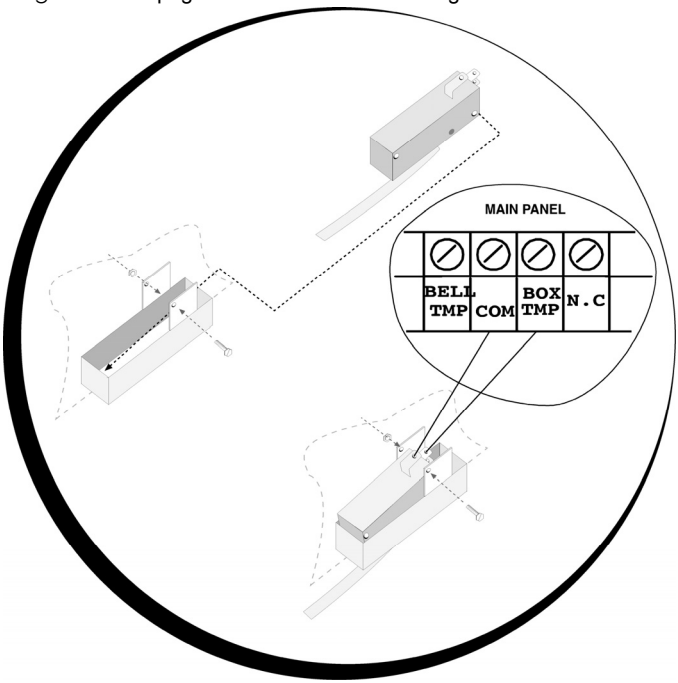


Figure 2-5: Wiring the Box Tamper

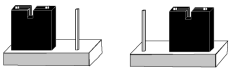
Wiring External Triggerable Devices

➢ **To wire external triggerable devices:**

♦ Wire the external triggerable devices that you want to activate to the outputs UO1-UO6, as follows:

- **UO1:** Refer to the J10 connector instructions, described in the next section. For additional details, refer to *Chapter 3, Installing External Modules and Devices*.
- **UO2-UO6:** Connect the positive connection of the device to **AUX (+)** and the negative connection to the UO's **(-)** terminals.

Connecting the J10 Connector

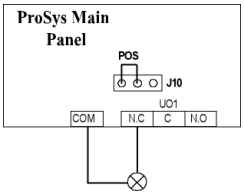


POS **NEG**

Figure 2-6: Connecting the J10 Connector

The J10 connector (jumper) determines the UO1 connection (behavior), which is normally used for an external siren connection, as follows:

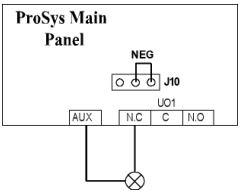
- **Positive (POS):** When the J10 connector is placed on **POS**, the C terminal on UO1 receives 13.8V.



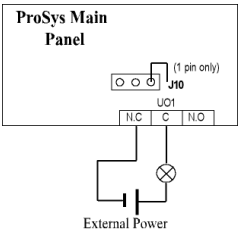
NOTE:

The maximum current for UO1 and the bell should not exceed 900mA.

- **Negative (NEG):** When the J10 connector is placed on **NEG**, the C terminal on UO1 receives COM.



- If the J10 connector is placed **only on 1 pin**, the UO1 acts as a dry contact.



Connecting to Ground (Earth)

➢ **To connect to ground (earth):**

♦ Connect the metal box and the door of the metal box to mains earth (ground), as shown in the diagrams on the following page. Refer also to *What Makes a Good Ground?*, page 2-2.

⚠ **IMPORTANT:**

Connecting to ground must be performed according to the local National Electrical Code.

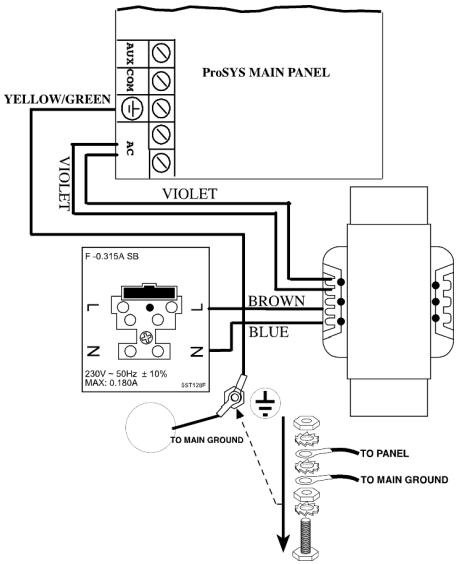


Figure 2-7: Grounding the Metal Box

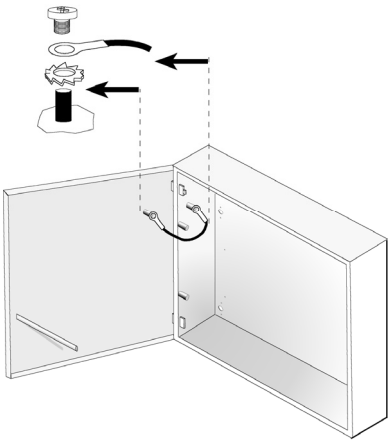


Figure 2-8: Grounding the Metal Box Door

Connecting Telephone Lines

These lines are typically derived from an installed RJ31X jack.

➢ **To connect telephone lines:**

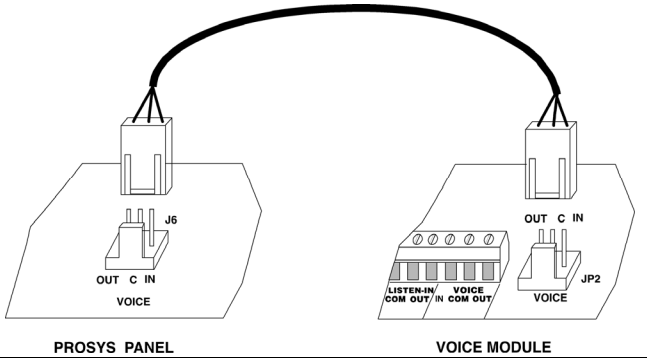
1. Connect the incoming telephone line to the Main Panel's **LINE** terminals.
2. Connect any telephone on the premises to the **SET** terminals.

Jumper Settings

The **ProSYS** is equipped with internal jumpers. Use the following table to configure the jumpers according to the desired configuration.

Jumpers	Position	Function
DEFAULT (J2)		Enables to default the panel and restore the ProSYS codes (Grand master, installer and sub installer) to the manufacturers default settings. Position the jumper plug over both pins when reinstating factory installed defaults values to the Grand master, installer and sub installer codes or for installing programming using the Program Transfer Module (refer to *Chapter 4, Programming the ProSYS)*.
	 **(Default)**	Maintains the last programming setting and disables the restoring of the ProSYS codes (Grand master, installer and sub installer) to the manufacturers default settings. Position the default jumper plug over one pin for safekeeping.
BELL/ LOUDSPEAKER (J3)		The J3 jumper determines whether a bell or loudspeaker sound will be heard. **Loudspeaker**: The ProSYS produces a continuous or interrupted oscillating voltage, depending on the type of alarm.
	 **(Default)**	**Bell**: The ProSYS produces a steady 12V DC voltage or a slow pulsating voltage, depending on the alarm type. Refer to *Wiring the Bell Sounders*, page 2-7, for further details
BATTERY PROTECTION (J20)	 **(Default)**	Battery Discharge Protection is Activated: If a continuous AC power outage occurs, the ProSYS automatically disconnects the battery when its backup battery voltage drops below 10.05 VDC, in order to prevent "deep discharge" that may damage the battery. **NOTE:** In this position, the ProSYS will not start to operate from a battery power supply, unless connected to the Mains first.
		Battery Discharge Protection is Disabled; The battery may be totally discharged during continuous AC failure, thus battery replacement may be required (no deep discharge protection). **NOTE:** In this position, the ProSYS will start to operate from a battery power supply whether it is connected to the Mains or not.
UO1 (J10)		Determines the UO1 connection (behavior), see Connecting the J10 Connector, page 2-9. Default: **1 PIN**

Connectors

Connector	Function
J1, J5	BUS 1 Plug in connector.
J8	BUS 2 Plug in connector.
J4	SIG In connector. The J4 SIG IN voice connector enables the transfer of audio data between the Voice module RP200VC and the phone line.
J6	The J6 connector is used to connect the Advanced Digital Voice Module (rp128ev00uka) to the ProSYS. Connect the Voice module to the **VOICE** connector (J6) on the Main Panel via the supplied cable. This connector transmits signals from the Voice module to the telephone line during remote communication and is essential for normal operation of the Voice module. 

Connecting AC Power

➢ **To connect AC power:**

1. Connect the 230V AC to the mains fuse (SLOW BLOW 315 mA) input terminal block according to the Local National Electronic Code.
2. Fasten the AC cord to the metal box using adjustable clamps.

⚠ **IMPORTANT:**

Do **NOT** apply mains power at this time.

Be sure to connect the live wire of the AC power through the AC fuse. The size of the conductors must not be less than 0.75mm^2 (18AWG).

Chapter 3: Installing External Modules and Devices

This chapter describes steps 3 to 5 of the *ProSYS* installation procedure, as follows:

- **Step 3: Identifying and Wiring Keypads and Expansion Modules**
- **Step 4: Adding Modules**, page 3-3
- **Step 5: Applying Power**, page 3-7

Step 3: Identifying and Wiring Keypads and Expansion Modules

This section explains how to program a unique ID number to identify each keypad and expansion module in the system and how to install a keypad, as follows:

- **Programming Device ID Numbers**, below
- **Installing a Keypad**, page 3-2

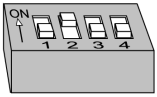
Programming Device ID Numbers

➢ **To program device ID numbers:**

- Program each device's ID number by setting the dip switches, as follows:

ID	1	2	3	4
01	OFF	OFF	OFF	OFF
02	ON	OFF	OFF	OFF
03	OFF	ON	OFF	OFF
04	ON	ON	OFF	OFF
05	OFF	OFF	ON	OFF
06	ON	OFF	ON	OFF
07	OFF	ON	ON	OFF
08	ON	ON	ON	OFF
09	OFF	OFF	OFF	ON
10	ON	OFF	OFF	ON
11	OFF	ON	OFF	ON
12	ON	ON	OFF	ON
13	OFF	OFF	ON	ON
14	ON	OFF	ON	ON
15	OFF	ON	ON	ON
16	ON	ON	ON	ON

Figure 3-1: Dip Switch Settings



Assign the same ID numbers to the different categories of devices (meaning keypads and expansion modules) in the order they are added to the system.

This means that you must assign the ID of **01** to the first keypad as well as to the **first** Zone Expander, the **first** Utility Output and the **first** Power Supply module. A **second** module in any of these categories receives the ID of **02**.

Up to 16 keypads can be added to the system, each assigned ID numbers from **01** to **16**. Up to 8 of the other types of devices can be added to the system, each assigned ID numbers from **01** to **08**.

Installing a Keypad

NOTE:

For information on installing the Touchscreen keypad, refer to the ProSYS Touchscreen Keypad Instruction manual that is included with the product.

➢ **To install a keypad:**

1. **Open the Keypad Cover:** Remove the back of the keypad cover, and using a screwdriver, press in each of the retaining clips to separate the back cover from the keypad. Take care not to touch the circuitry of the keypad buttons.
2. **Set the Dip Switches:** Program the keypad ID by setting the dip switches according to the table displayed in *Figure 3-1* on page 3-1. Dip switch settings are per ID number (**01** = first keypad, **02** = second keypad, and so on).
3. **Connect the BUS Wiring:** Connect the wires from the appropriate terminals in the keypad to the appropriate connector on the Main Panel's Expansion BUS terminals. The connections are terminal-to-terminal with the terminals clearly marked. The wires are color-coded, as follows:

	EXPANSION BUS TERMINALS			
	AUX	**COM**	**BUS**	**BUS**
Color	RED	BLK (Black)	YEL (Yellow)	GRN (Green)

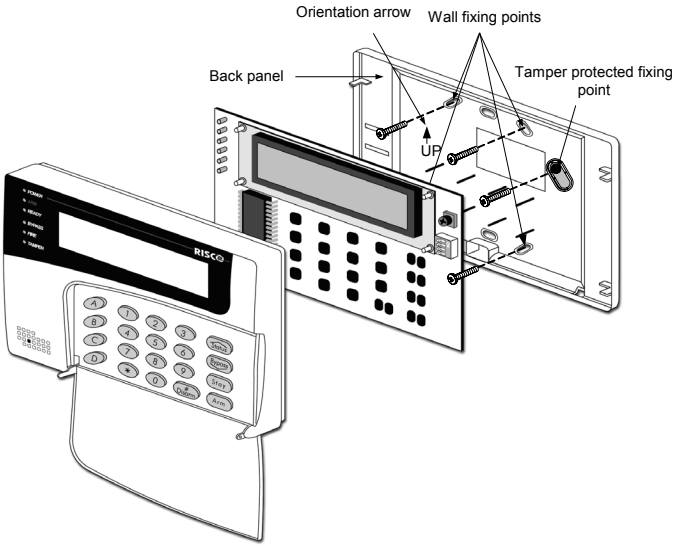


Figure 3-2: Keypad Installation Front View

NOTES:

A trimmer is located on the right side of the keypad (next to the dip switches) that enables you to adjust the brightness and contrast of the LCD display. Therefore, it is recommended to leave the keypad open while powering up in order to adjust the LCD display.

To prevent a possible drop in voltage due to multiple keypads and long wire runs, use a quality 4-conductor cable with an appropriate gauge size (refer to the table of gauge sizes in *Chapter 1, Introducing ProSYS*).

The maximum wire run permitted is 300 meters (1000 feet) for the total BUS wiring.

4. **Set the Tamper Switch:** Before mounting the keypad on the wall, locate the rear-mounted Tamper Switch and make sure that it is vertically oriented.
5. **Replace the Cover:**
   - Carefully replace the keypad's printed circuit board in its cover.
   - Join the cover and base by hooking the tops together and then snapping the bottom in place, returning the retaining clips to their positions.

Step 4: Adding Modules

This section explains how to add the various ProSYS modules, as follows:

- **Wiring Zone Expansion Modules**, below
- **Wiring Utility Output Modules**, page 3-4
- **Wiring Power Supply Expansion Modules**, page 3-6
- **Wiring Additional Modules**, page 3-7

Wiring Zone Expansion Modules

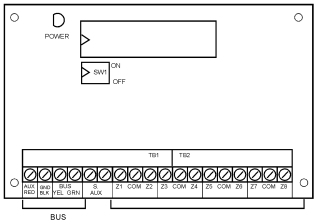


Figure 3-3: 8 Zone Expansion Module

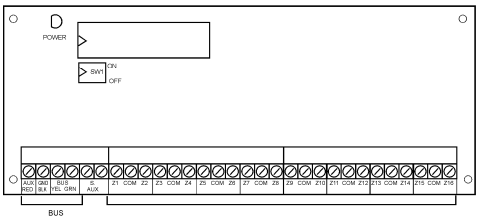


Figure 3-4: 16 Zone Expansion Module

➢ **To wire Zone expansion modules:**

1. **Set the Dip Switches:** Assign a unique ID to each Zone expansion module by setting the dip switches, using *Figure 3-1* on page 3-1.

NOTE:

The ID for the first Zone expansion module is **01**, for the second **02**, and so on.

2. **Connect the BUS Terminals:** Connect the first four terminals at the left of the Zone expansion module to the Main Panel's 4-wire BUS terminal, as follows:

	EXPANSION BUS TERMINALS			
	AUX	**COM**	**BUS**	**BUS**
Color	RED	BLK (Black)	YEL (Yellow)	GRN (Green)

NOTES:

The parallel wiring system supports parallel connections from any point along the wiring (refer to *Chapter 2, Mounting and Wiring the Main Panel*).

The maximum wire run permitted is 300 meters (1000 feet) for the total BUS wiring.

3. **Connect the Zone Terminals (8-Zone Expander Z1-Z8; 16-Zone Expander Z1-Z16):** Refer to steps 1 to 3 in the *Wiring the Zones to Sensors and Detectors* section in *Chapter 2, Mounting and Wiring the Main Panel*.
4. **Supply Power to the Auxiliary Devices:** Refer to step 4 in the *Wiring the Zones to Sensors and Detectors* section in *Chapter 2, Mounting and Wiring the Main Panel*.

Wiring Utility Output Modules

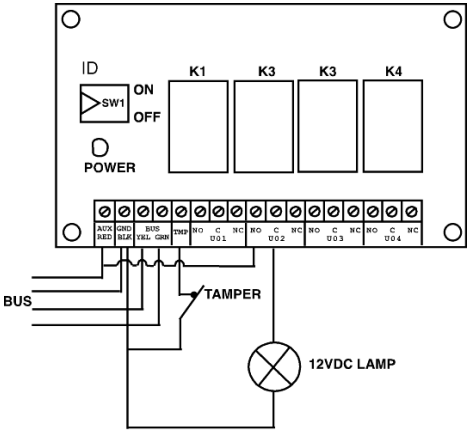


Figure 3-5: Utility Output Module UO4 (Showing an Example of UO4 Wiring)

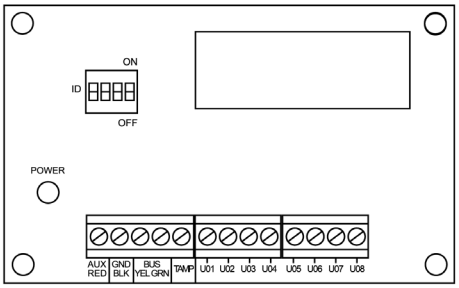


Figure 3-6: Utility Output Module E08

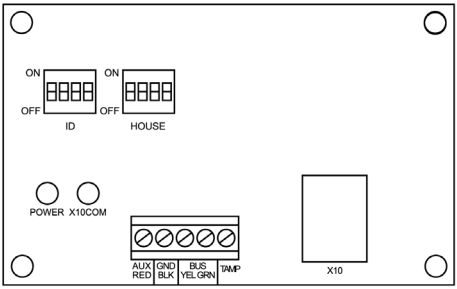


Figure 3-7: Utility Output Module X-10

➢ **To wire Utility Output modules:**

1. **Set the Dip Switches:** Assign a unique ID to each Utility Output expansion module by setting the dip switches, using *Figure 3-1* on page 3-1.

NOTE:

The ID for the first Utility Output expansion module is **01**, for the second **02**, and so on. The first Utility Output in the Utility Output expansion module (defined as ID **01**) will always be Utility Output **07**.

2. **Connect the BUS Terminals:** Connect the first four terminals at the left of the Utility Output expansion module to the Main Panel's 4-wire BUS, as follows:

	EXPANSION BUS TERMINALS			
	AUX	**COM**	**BUS**	**BUS**
Color	RED	BLK (Black)	YEL (Yellow)	GRN (Green)

NOTES:

Additional Utility Output modules can be connected to the system at any available point on the Expansion BUS wiring (refer to *Chapter 2, Mounting and Wiring the Main Panel*).

The maximum wire run permitted is 300 meters (1000 feet) for the total BUS wiring.

3. **Set the Tamper (TAMP COM):** The Utility Output expansion module can be contained in a metal cabinet. Tamper the cabinet, as follows:
   - Connect one (or more) normally open (NO) momentary-action pushbutton switches in a series between the TAMP and COM terminals in order to short-circuit these terminals while the cabinet door is closed.

   NOTES:

   It is not necessary to use a tamper switch if another module sharing the same cabinet is equipped with one.

   Do **NOT** use an End-of-Line Resistor in the tamper switch circuit.
   - If a tamper switch is not used, connect a wire jumper between the two terminals.
4. **Mount the Utility Output Expansion Modules:** Mount one or more Utility Output expansion modules in the Main Panel cabinet, depending on space availability. Alternatively, mount them in a separate cabinet.
5. **Connect the Triggerable Device to the Utility Output:**
   - Connect one wire to the COM terminal of the UO device to be operated and connect the other wire to the GND.
   - Connect the NO or NC switch to the AUX terminal.
6. **Wire the Relay Connections:** The Relay module has 4 relays (UO1, UO2, UO3, and UO4), which can be connected as follows:
   - Connect one wire of the device to be operated to the UO terminal.
   - Connect the other wire of the device to be operated to the AUX terminal.

   For instructions about programming the relay operation, refer to the *Utility Output* section in *Chapter 5, Using the Installer Programming Menus*.
7. **Wire the Triggers:** The Open Collector modules have 8 outputs (UO1 through UO8). For instructions about programming their operation, refer to the *Utility Output* section in *Chapter 5, Using the Installer Programming Menus*.
8. **Wire the X-10:**
   - Connect the 4-wire BUS between the Main Panel and the X-10 module.
   - Connect an RJ25 cable (4-wire telephone cable) between the RJ11 connector on the X-10 module and the X-10 transmitter.
   - Plug the X-10 transmitter into the AC power.
   - Plug the X-10 receiver into the AC power close to the device that will be operated.
   - Connect the X-10 receiver to the device.

   For more information about programming and setting the ID of the X-10 module, refer to the instructions supplied with the module

Wiring Power Supply Expansion Modules

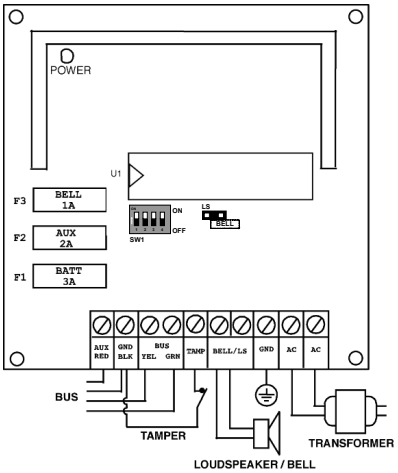


Figure 3-8: 1.5A Power Supply Module PS

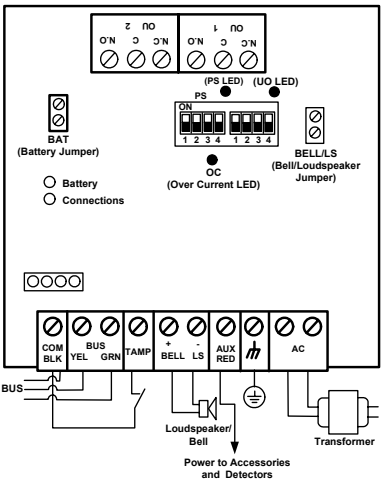


Figure 3-9: 3A Power Supply Module PS

➢ **To wire Power Supply expansion modules:**

1. **Set the Dip Switches:** Assign a unique ID to each Power Supply expansion module by setting the dip switches, using *Figure 3-1* on page 3-1.

NOTE:

The ID for the first Power Supply expansion module is **01**, for the second **02**, and so on.

2. **Connect the BUS Terminals:** Connect **only** three of the first four terminals at the left of the Power Supply expansion module to the Main Panel's 4-wire BUS, as follows (refer also to *Figure 2-3* in *Chapter 2, Mounting and Wiring the Main Panel*):

	EXPANSION BUS TERMINALS		
	COM	**BUS**	**BUS**
Color	BLK (Black)	YEL (Yellow)	GRN (Green)

IMPORTANT:

Do **NOT** make any connection to the **AUX (RED)** terminal from the Main Panel. It is used for the outgoing BUS to supply voltage to other modules.

NOTES:

The Power Supply expansion module is connected to the AC power supply. This module, therefore, supplies power to all modules and/or keypads located AFTER the point that it is connected to the BUS.

The maximum wire run permitted is 300 meters (1000 feet) for the total BUS wiring.

3. **Set the Tamper (TAMP COM):** The Power Supply expansion module can be contained in a metal cabinet. Tamper the cabinet, as follows:
   - Connect one (or more) normally open momentary-action pushbutton switches in a series between the TAMP and COM terminals.

NOTES:

It is not necessary to use a tamper switch if another module sharing the same cabinet is equipped with one.

Do **NOT** use an End-of-Line Resistor in the tamper switch circuit.

- If a tamper switch is not used, connect a wire jumper between the two terminals.

4. **Connect the Internal Siren BELL/LS (+) (-):**
   - Connect a suitable wire to the internal device(s) to be driven by the Power Supply expansion module (bell, electronic siren, or loudspeaker).
   - Use a larger wire gauge if the distance separating the siren and the module is significant. Take the siren(s) current draw into account as well when selecting a wire gauge (refer to the table of gauge sizes in *Chapter 1, Introducing ProSYS*).

   NOTE:
   Any internal siren(s) connected to the Power Supply expansion module will operate exactly like the siren(s) connected to the Main Panel.

   - Position the BELL/LS Jumper (J3), as follows:
     - For a loudspeaker without a built-in siren driver, position the jumper J3 so that it covers both pins. The module produces a continuous oscillating voltage for burglary and panic alarms and an interrupted oscillating voltage for fire alarms.
     - For a bell or electronic siren, with a built-in sound driver, position the jumper J3 so that it does NOT cover both pins. A steady 12V DC is produced at the siren terminals during burglary and panic alarms. A slow pulsing voltage is produced during a fire alarm.
5. **Supply Power to the Auxiliary Device AUX (+) COM (–):** The Power Supply expansion module can power PIRs, glass-break detectors (4-wire types), audio switches, and photoelectric systems. It can also power any device located too far from the Main Panel and/or whose operation requires a continuous supply of 12V DC via the AUX (+) and COM (–) terminals. (Refer to *Chapter 2, Mounting and Wiring the Main Panel*).
6. **Connect the Flying Leads (RED and BLACK):** Connect these leads (at the proper time) to the positive (+ RED) and negative (– BLACK) terminals of the appropriate Standby Battery for the Power Supply expansion module.

Wiring Additional Modules

For details about wiring the following modules, refer to the installation and programming manual that is supplied with each module:

- Advanced Digital Voice Module
- Access Control Module
- Proximity Key Reader
- Fast PSTN Modem 2400 BPS
- ProSound Sounder
- Advanced Communication Module (ACM)
- GSM/GPRS Module (AGM)
- BUS Zones detectors (WatchOUT, Lunar Industrial, WatchIN, iWise)
- BUS Zone Expander

Step 5: Applying Power

After you have completed wiring the modules, you can apply power and program the system according to the instructions in the next chapter.

Chapter 4: Programming the ProSYS

This chapter explains the ProSYS programming options, how to use the keypad elements, and the basics about programming via the keypad, as described in the following sections:

- **Using the ProSYS Main Panel Programming Options**, below
- **Using the LCD Keypad**, page 4-2
- **Programming from the LCD Keypad**, page 4-4
- **Using the Program Transfer Module**, page 4-9

For detailed information about each Programming option, refer to *Chapter 5, Using the Installer Programming Menus*.

Using the ProSYS Main Panel Programming Options

You can program the ProSYS in any of the following ways:

- **LCD Keypad:** Use any of the LCD keypads described in this manual. Each keypad needs a unique ID to identify it in the system. Refer to *Chapter 3, Installing External Modules and Devices*, for details about how to set the keypad ID using dip switches. Instructions for programming the ProSYS from an LCD keypad are provided on pages 4-2 through 4-8.
- **Program Transfer Module (PTM):** (Model ProSYS EE) The PTM is a tiny circuit board into which a copy of the Main Panel's configuration can be copied and stored as well as transferred to any installation when temporarily plugged into its 4-wire BUS. Refer to page 4-9 for detailed instructions about using the Program Transfer Module.
- **Upload/Download (U/D):** This is a software application that enables you to program the ProSYS from a PC computer. It offers the following two alternatives:
  - Working locally, through a portable computer connected to the Main Panel
  - Working at a remote site, communicating with the Main Panel via one of the following options:
    - A phone line and modem
    - TCP/IP network using the ACM module
    - GPRS using the AGM a phone line and modem
  - When using the Upload/Download software, the following is required:
    - IBM compatible PC
    - Upload/Download software
    - BUS adapter cable and plug to connect between the PC serial COM port and the ProSYS J1 connector (for on-site use)
    - Modem with access to a phone line (for remote use)
    - USB/485 converter for on-site use (p/n RP128EUSB00A) to connect between a PC USB port and the ProSYS J1 serial connection. For additional details, refer to a RISCO Group's technical support representative.

  Full details and operating instructions for the U/D software are available in the *Upload/Download User's Manual*, provided with the software (p/n 5IN128UD).

Using the LCD Keypad

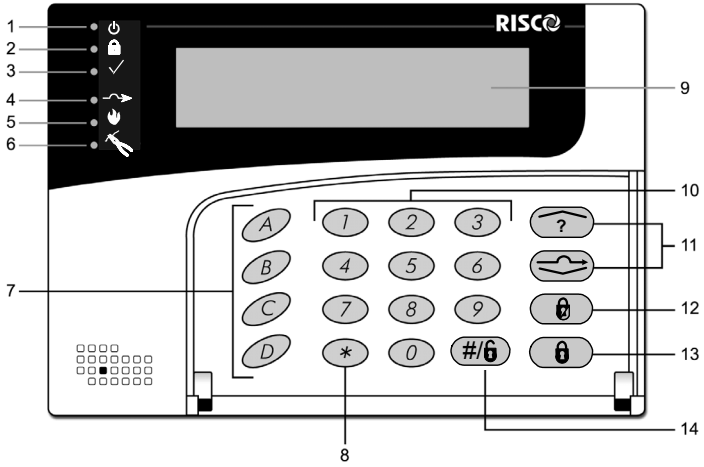


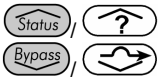
Figure 4-1: The LCD Keypad Face

The LCD keypad is a visual interface tool that helps you operate the ProSYS Main Panel. The LCD keypad contains six LED indicators and a variety of keys. Their typical uses are described in the following table:

NOTE:

For information regarding the TouchScreen keypad please refer to the instructions supplied with the product.

Item	Key/LED	Programming Mode/Function
1	**Power LED**	This LED indicates the following: • LED ON = power on • Slow flashing LED = an active programming session • Fast flashing LED = system trouble
2	**Arm LED**	This LED indicates that the system is armed. All partitions must be disarmed (LED unlit) to enter the Installer Programming mode.
3	**Ready LED**	These LEDS are off (unlit) during programming operations. These LEDs on the keypads (other than the one being used for actual programming) flash during programming operations.
4	**Bypass LED**	
5	**Fire LED**	
6	**Tamper LED**	

Item	Key/LED	Programming Mode/Function
7	**A, B, C, and D**	Use these keys for defining groups and macros. Refer to the *Groups* section in *Chapter 1, Introducing ProSYS* for further details.
8		Use this key to exit the current programming selection and move up to the next higher level in the programming hierarchy.
9	**LCD Program Display**	The LCD program display consists of two lines. The top line displays information about the main selection mode, and the bottom line displays information and/or data about the specific option set. Such data may be changed through keypad entry. When programming, up to 16-characters can be entered into a line, as required.
10	**0 through 9**	Use the numbered keys, **0** through **9**, to key in numbers and/or special characters when labeling zones, areas, and partitions. (For information about how to use the keypad for labeling zones, areas, and partitions, refer to *Chapter 5, Using the Installer Programming Menus.*)
11		Press either one of these keys to move back and forth through the programming level functions. These keys also change the position of the flashing cursor. When editing a selection, the cursor moves to the left or right respectively.
12		Use this key to toggle forward through the programming choices within a selection.
13		Use this key to toggle backward through the programming choices within a selection.
14		Use this key to enter selected information into the system or to accept the current selection and access the lower level of options in the programming hierarchy.

Programming from the LCD Keypad

This section explains how to use the keypad to access the Installer Programming menu as well as how to restore the manufacturer's defaults, as described in the following sections:

- **Accessing the Installer Programming Menu**, below
- **Restoring Manufacturer's Programming Defaults**, page 4-6
- **Keypad Timeout**, page 4-8
- **Using the Program Transfer Module (PTM)**, page 4-9

Accessing the Installer Programming Menu

This section describes how to access the Installer Programming menu for the first time or after the Main Panel has been defaulted, as well as how to access it from the regular operation mode.

If the Main Panel has been defaulted, you must enter the Installer Programming menu as if it is the first time. In this case, after you enter your Installer code, the system automatically enters the automatic accessories setting process by performing the BUS scan. (Refer to the *Accessories: Auto Settings* section of *Chapter 5, Using the Installer Programming Menus* for further details).

➢ **To access the Installer Programming Menu for the first time (or after the Main Panel has been defaulted):**

1. When you power up the system, the following display appears:

   ```
   PLEASE WAIT…
   ```

   After a brief wait, the following display appears:

   ```
   TO INSTALL
   PRESS *
   ```

2. To program the system to recognize the keypad, press (*). The following display appears, prompting you for the Installer code:

   ```
   INSTALLER CODE:
   _
   ```

3. Enter the default Installer code, depending on the ProSYS model:
   - **ProSYS 128:** [0][1][2][8]
   - **ProSYS 40:** [0][1][4][0]
   - **ProSYS 16:** [0][1][1][6]

   The code appears as **** on the keypad display, as follows:

   ```
   INSTALLER CODE:
   ****
   ```

4. The system enters the automatic accessories setting process, and the following display appears:

   ```
   ACCESSORIES
   5) AUTO SETTINGS
   ```

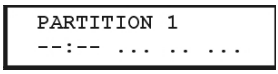
NOTE:
Refer to *Accessories: Auto Settings* section of *Chapter 5, Using the Installer Programming Menus* for further details.

The Power/⏻ LED begins flashing slowly at this point, indicating that you have entered a programming session.

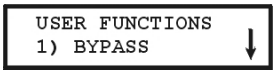
➢ **To access the Installer Programming Menu from the regular operation mode:**

1. When you power up the system, the following display appears:

After a brief wait, the keypad displays the regular operation mode, as follows:

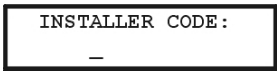


2. Press (*). The keypad displays the first **User Functions** option, as follows:



3. Press **[7]** to select the **Installer** option or use the (Bypass)/(→) key. The keypad displays the first option, as follows:

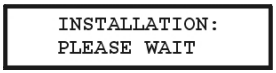
4. Press **[1] Advanced**. The keypad prompts you for the Installer code, as follows:



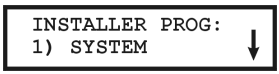
5. Enter the default Installer Code, depending on the ProSYS model:
   - **ProSYS 128:** [0][1][2][8]
   - **ProSYS 40:** [0][1][4][0]
   - **ProSYS 16:** [0][1][1][6]

   The code appears as ✻✻✻✻ on the keypad display, as follows:

6. Press (#/Disarm)/(#/6). The keypad displays the following message:



Then the first main Installer Programming menu option is displayed, as follows:



The Power/⏻ LED begins flashing slowly at this point, indicating that you have entered a programming session.

The main Installer Programming menu options are available, as follows:

[1] SYSTEM

[2] ZONES

[3] UTIL OUTPUT

[4] CODE MAINT

[5] DIALER

[6] REPORT CODES

[7] ACCESSORIES

[8] MISCELLANEOUS

[9] ACCESS CONTROL

[0] EXIT PROGRAM

Each of the main Installer Programming menu options enables you to access and program all of the ProSYS options. Refer to *Appendix E, Installer Programming Maps* for a complete list of all the programming options. Each option is also discussed in detail in *Chapter 5, Using the Installer Programming Menus*.

Restoring Manufacturer's Programming Defaults

You may find it useful to be able to remove all changes made to the Main Panel's programming and restore the default settings provided by the manufacturer. Restoring defaults requires performing both of the procedures below. The first procedure enables the restoring option and the second procedure is the actual restoring process.

➢ **To enable the restore to the manufacturer's defaults:**

1. From the Installer Programming menu, select the **System** option by pressing **[1]** or pressing the # Disarm / #/6 key. The System menu option is displayed, as follows:

```
SUBJECT:  SYSTEM
1)TIME DEFINE      ↓
```

2. Select the **Default Enable/Disable** option by scrolling down to the option using the Bypass / key or press [7]. The following display appears:

```
SUBJECT:  SYSTEM
7)DFLT EN/DS       ↕
```

3. Toggle to the **Default Enable** option using the Stay / key until the following is displayed:

```
DEFAULT EN/DIS:
DEFAULT ENABLE
```

NOTE:

The Default option for the Default Enable/Disable parameter is **Enable.**

4. Select the option by pressing the # Disarm / #/6 key.

NOTE:

On the Main Panel, the J2 default jumper must be in its position on one of the J2 pins.

5. Press (*) and then press **[0]**. The keypad prompts you to save the changes by displaying the following message:

```
 DO YOU WANT TO
SAVE THE DATA? Y
```

6. Confirm saving the data by pressing the (# Disarm)/ (#/6) key. A short beep will sound, and the keypad displays the following messages:

```
  PLEASE WAIT
  DATA SAVING..
```

```
  DATA IS SAVED
  PLEASE WAIT...
```

7. Next, the system will perform a Tamper Test. The following display appears:

```
TESTING:
PLEASE WAIT
```

If a tamper occurs in the system (Bell, box or other) the display will show a list of the tamper faults in the system.
It is advisable to scroll down the list and fix the tamper before exiting the installer programming mode to prevent tamper alarm.

8. After reviewing the tamper fault list press (# Disarm)/ (#/6) key. The following display appears:

```
Quit with
Tamper?          N
```

Selecting **Yes** will result in exiting the installer programming menu and activating a tamper alarm in the system.

When the save function is complete and no tamper fault exists, the keypad displays the regular operation mode, as follows:

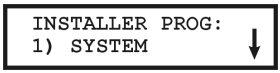
```
PARTITION 1
--:-- ... .. ...
```

If, while exiting, the following display appears, this means that the J2 default jumper on the Main Panel is NOT in its position on one of the J2 pins, but wrongly positioned on both J2 pins.

```
EE U/D ACCESSORY
NOT FOUND
```

➢ **To restore the Main Panel to the manufacturer's defaults:**

1. Disconnect all power from the Main Panel.
2. Remove the J2 default jumper from its position on one of the J2 pins.
3. Position the J2 default jumper on **both** of the J2 pins.
4. Reconnect the power to the mains and backup battery to the Main Panel. The keypad sounds a long beep and all of the LEDs flash once. The following message is displayed on the keypad for 20 seconds:



And then the following message is displayed:

5. On the Main Panel, reposition the J2 default jumper on one of the J2 pins (where it resides for safekeeping).
6. Proceed to reprogram the Main Panel, as required.

NOTES:

Remember that the Installer Code has been restored to the manufacturer's default setting, depending on the ProSYS model:

- **ProSYS 128:** [0][1][2][8]
- **ProSYS 40:** [0][1][4][0]
- **ProSYS 16:** [0][1][1][6]

In addition, the default operation will occur only when the system is defined as **Enabled**, as described in the procedure on page 4-6.

Keypad Timeout

If, after 15 minutes, no entry is made to a keypad that has been placed in the Installer Programming mode, it will produce an audible reminder, consisting of several beeps in rapid succession, along with the following display:

Pressing any key stops the beeping. To re-enter the Installer Programming menu, you must key in your Installer code again and press (# Disarm)/(#/6).

Using the Program Transfer Module (PTM)

The Program Transfer Module (PTM) is used to create and apply standard programming templates.

In addition, you can use the PTM on powered-up, properly functioning Main Panels, which have been previously programmed.

➢ **To create a Programming Template by copying from a programmed Main Panel:**

- Use a programmed Main Panel to create a Programming Template to be applied to other Main Panels. The programming on the Main Panel is ready for copying.

➢ **To install a Programming Template on a Main Panel:**

- Use an existing Programming Template on a PTM to install programming on a Main Panel. At least one LCD keypad must be installed on the Main Panel.

➢ **To copy from a programmed Main Panel into the PTM:**

1. Position the PTM on the J1, J5 or J8 connector on the Main Panel with the red LED facing the row of terminals on the Main Panel. The red LED flashes slowly.
2. Remove the J2 jumper plug from its position on one pin of the J2 connector.
3. Position the J2 jumper plug on both of the two pins of the J2 connector.
4. From an LCD keypad, access the main Installer Programming menu by pressing (*) **[7] [1]**. The first option of the main Installer Programming menu is displayed.
5. Without making any changes, exit the main Installer Programming menu by pressing **[0]**. The LED on the Program Transfer module flashes rapidly, and the keypad displays the following:

   ```
   SAVING DATA IN
   EE U/D ACCESSORY
   ```

   When the LED stops flashing rapidly, the keypad beeps twice and displays the following:

   ```
    DATA IS SAVED
    PLEASE WAIT...
   ```

   Then the keypad returns to the normal initial display.
6. Remove the PTM from the J1, J5 or J8 connector and remove the J2 jumper plug.
7. Position the J2 jumper plug on one of the pins of the J2 connector.

The PTM now contains a copy of the Main Panel's configuration.

➢ **To load the Program Transfer Module's stored configuration into a Main Panel:**

1. Position the PTM on the J1, J5 or J8 connector on the Main with the red LED facing the row of terminals on the Main Panel. The red LED flashes slowly.
2. Remove the J2 jumper plug from its position on one pin of the J2 connector.
3. Position the J2 jumper plug on both of the two pins of the J2 connector.
4. Momentarily remove all power from the Main Panel (both AC and Standby Battery).
5. Restore all power to the Main Panel. After a moment, the LED on the Program Transfer module flashes rapidly, indicating that the information is being copied from the PTM to the Main Panel. The LCD keypad displays the following:

   ```
   PLEASE WAIT…
   ```

When the LED stops flashing rapidly, the keypad beeps once, and its display returns to the normal initial display.

6. Remove the PTM from the BUS connector and remove the J2 jumper plug.
7. Position the J2 jumper plug on one of the pins of the J2 connector.
8. From an LCD keypad, access the main Installer Programming menu by pressing (*) **[7] [1]**. The first option of the main Installer Programming menu is displayed.
9. Without making any changes, exit the main Installer Programming menu by pressing **[0].** The LED on the Program Transfer Module flashes rapidly, and the keypad displays the following:

```
DO YOU WANT TO
SAVE THE DATA? Y
```

10. Press (# Disarm), (#/6).
    The keypad beeps twice and displays the following:

```
DATA IS SAVED
PLEASE WAIT...
```

    Then the keypad returns to the normal initial display, and the Main Panel's configuration now matches the PTM.
11. Reset its TIME and DATE, which were lost when power was removed. (Refer to the *ProSYS User's Manual*.)

Chapter 5: Using the Installer Programming Menus

This chapter describes the ProSYS programming options and functions, as well as all quick key shortcuts. They are presented in a table of menus and are listed according to their number, as follows:

An alphabetical list of options and functions is also provided in the *Index* at the back of this manual.

Installer Programming Menu Conventions

The following pages describe the options and functions that can be accessed via the LCD keypad and how to program them.

Remember that these options are accessed from the Installer Programming menu, described in *Chapter 4, Programming the ProSYS*. Each procedure also provides information about programming the system using the relevant Quick Keys.

The column headings appear as follows:

Column Heading	Description
Quick Keys	A shortcut to program an option. The shortcuts are listed in numerical sequence.
Parameter	The name of the option programmed by the selection.
Default	The factory default. The default values have been carefully chosen and are suitable for most systems.
Range	Where applicable, the range of possible values.

➢ **To program the system using Quick Keys:**

1. Access the **Installer Programming** menu and select the main menu option that you want to access (refer also to *Chapter 4, Programming the ProSYS*).
2. Press the **Quick Keys** listed in sequence (from left to right) to locate the option listed in the **Parameter** column and then press (#/Disarm)/(#/6).

NOTE:

When programming items in sequence, you can use the * key to exit to the previous level and the Stay/ key to toggle the options.

1 System

The System menu provides access to submenus and their related parameters that are used for programming configuration settings applicable to the entire system.

After you access the System menu from the main Installer Programming menu, as described in this section, you can access the following submenus:

➢ **To access the System menu:**

From the Installer Programming menu, press **[1]**, or press the Status/ ? or Bypass/ keys until you find the number **[1] System** option and then press #Disarm/ #/6. The first submenu (TIME DEFINE) appears:

```
SUBJECT: SYSTEM
1)TIME DEFINE   ↓
```

You are now in the System menu and can access the required submenus, as described in the following sections.

1 1 System: Time Define

The Time Define menu contains parameters that specify the duration of an action.

➢ **To access the Time Define menu:**

1. Access the System menu, as described on page 5-2.
2. From the System menu, press **[1]** to access the Time Define menu options. The following display appears:

```
TIME DEFINE:
1)EX/EN DELAY 1 ↓
```

3. Access and configure the parameters in the Time Define menu, as follows:

System: Time Define

Quick Keys	Parameter	Default	Range
1 1 1	**Exit/Entry Delay 1**		
	Exit/Entry Delays (Group 1).		
1 1 1 1	**Entry Delay 1**	30 seconds	0-255 seconds
	Duration of Group 1 Entry Delay.		
	Note: For SIA CP 01 installations the range of entry time should be between 30 to 240 seconds with default of 30 seconds.		
1 1 1 2	**Exit Delay 1**	45 seconds	0-255 seconds
	Duration of Group 1 Exit Delay.		
	Note: For SIA CP 01 installations the range of exit time should be between 45 to 255 seconds with default of 60 seconds.		
1 1 2	**Exit/Entry Delay 2**		
	Exit/Entry Delays (Group 2).		
1 1 2 1	**Entry Delay 2**	45 seconds	0-255 seconds
	Duration of Group 2 Entry Delay.		
	Note: For SIA CP 01 installations the range of entry time should be between 30 to 240 seconds with default of 30 seconds.		
1 1 2 2	**Exit Delay 2**	60 seconds	0-255 seconds
	Duration of Group 2 Exit Delay.		
	Note: For SIA CP 01 installations the range of exit time should be between 45 to 255 seconds with default of 60 seconds.		
1 1 3	**Bell Timeout**	04 minutes	01-90 minutes
	Duration of the external siren(s) during alarm.		
1 1 4	**Bell Delay**	00 minutes	00-90 min. /sec.
	The time delay before the keypad siren and the external siren operates after the onset of an alarm.		
1 1 5	**Switched Auxiliary Break**	10 seconds	01-90 seconds
	The time that the power supplied to the system's smoke detectors through the Utility Output is interrupted during a user-initiated smoke detector reset, typically performed after a Fire Alarm or automatically when a fire verification is defined in the system control. (Refer to *Double Verification of Fire Alarms*, page 5-6, for additional details.)		
	NOTE: This feature is supported through **any** Utility Output that is defined as Switch AUX.		
1 1 6	**Wireless Module Times**		
	Specifies the time intervals relating to the operation of the wireless module.		

System: Time Define

Quick Keys	Parameter	Default	Range
1 1 6 1	**Jamming Time**	NONE	NONE, 10, 20 or 30 seconds
	Specifies the period of time that the ProSYS's wireless module tolerates unwanted radio frequencies capable of blocking (jamming) signals produced by the system's transmitters. Once the specified time is reached, the Main Panel sends a Report Code to the Monitoring Station (MS). (Refer to *Jamming Trouble*, page 5-102.) **NONE:** No jamming will be detected or reported.		
	NOTE:		
	Refer also to *Audible Jamming,* page 5-7. Different sounds will be produced when jamming is detected, depending on the defined Audible Jamming time.		
1 1 6 2	**Supervisory (S.V.) Time**	0 hours	0-7 hours
	Specifies how often the ProSYS checks for supervision signals, identifying each of the system's transmitters. The Main Panel generates a local trouble signal identifying the zone of any transmitter from which a signal is not received during the specified interval. The Main Panel then sends the Supervision Report Code to the MS. (Refer to *Report Codes: Zones*, page 5-92.)		
	NOTES:		
	0 hours disables supervision. It is recommended to set the supervision time to a minimum of **3** hours.		
1 1 7	**Zone Test Times**		
	Specifies the start time and interval between Zone Tests. These features permit an automatic self-testing routine for up to 16 zones. (For further information about this concept, refer to the procedures described in *Zone Self-Test*, page 5-35.)		
1 1 7 1	**Start Test At**	HR:00 MIN:00	00-24 hours 00-59 minutes
	Use the **Start Test At** parameter to define the time of day that the test should first be performed (defined in 24-hour format).		
1 1 7 2	**Zone Test Period**	HR:00	00-24 hours
	Use the **Zone Test Period** parameter to define how often, after the initial test, each subsequent test will occur.		
1 1 8	**AC Off Delay Time**	MIN: 30	0-255 minutes
	In the case of a loss of AC power, this parameter specifies the delay period before reporting the event or operating the Utility Output. If the delay time is set to **0** (zero), there will be no delay period.		
1 1 9	**More**		
	Additional options.		
1 1 9 1	**Phone Line Cut Delay Time**	MIN: 04	00-20 minutes
	In the case of a cut phone line, this parameter specifies the delay period before reporting the event into the event log or operating the Utility Output. 00 indicates no supervision of the telephone line		

System: Time Define

Quick Keys	Parameter	Default	Range
1 1 9 2	**Guard Delay**	MIN: 30	01-99 minutes
	Specifies the time period that the system will be disarmed after an authorized user enters a Guard code.		

1 2 System: System Control

The System Control menu contains parameters that control specific system operations.

➢ **To access the System Control menu:**

1. Access the System menu, as described on page 5-2.
2. From the System menu, press **[2]** to access the System Control menu options. The following display appears:

```
SYSTEM CONTROL:
01)QUICK ARM Y ↓
```

3. Access and configure the parameters in the System Control menu, as follows:

System: System Control

Quick Keys	Parameter	Default	Range
1 2 01	**Quick Arm**	YES	YES/NO
	YES: Eliminates the need for a User Code when arming in STAY or AWAY modes.		
	NO: A valid User Code is required for arming in STAY or AWAY modes.		
1 2 02	**Quick UO**	YES	YES/NO
	YES: A user can activate a Utility Output without the need to enter a User Code.		
	NO: A User Code is required to activate a Utility Output.		
1 2 03	**Allow Bypass**	YES	YES/NO
	YES: Permits zone bypassing by authorized system users after entering a valid User Code.		
	NO: Zone bypassing is NOT permitted.		
1 2 04	**Quick Bypass**	NO	YES/NO
	YES: Eliminates the need for a valid User Code when bypassing zones.		
	NO: Qualified users must enter a valid User Code to bypass zones.		
1 2 05	**False Code Trouble**	NO	YES/NO
	YES: A False Code report is sent to the MS after three successive attempts at arming or disarming in which an incorrect User Code is entered. No alarm sounds at the premises, but a trouble indication appears on the system's keypad(s).		
	NO: A local alarm is sounded at the premises.		

System: System Control

Quick Keys	Parameter	Default	Range
1 2 06	**Bell Squawk**	YES	YES/NO
	YES: If a keyswitch or a rolling code remote control is used, a brief "chirp" is produced from the system's external sounder(s) (at the conclusion of the Exit Delay period), as follows: ♦ One chirp indicates the system is armed. (Also from keypad) ♦ Two chirps indicate the system is disarmed. ♦ Four chirps indicate the system is disarmed after an alarm. **NO:** No "chirp" is produced.		
1 2 07	**Bell 30/10**	NO	YES/NO
	YES: Any internal sounders cease to sound for 10 seconds after each 30 seconds of operation. **NO:** Any internal sounders operate without interruption.		
1 2 08	**Alarm Phone Cut**	NO	YES/NO
	YES: Activates the external sounders if the phone line is cut or the telephone service is interrupted for the time defined in the **Phone Line Cut Delay Time** parameter. (Refer to *Phone Line Cut Delay Time*, page 5-4.) **NO:** No activation occurs.		
1 2 09	**3 Minute Bypass**	YES	YES/NO
	YES: Bypasses all zones automatically for 3 minutes when power is restored to an "unpowered" system to allow for the stabilization of motion and/or smoke detectors. **NO:** No bypassing occurs.		
1 2 10	**Double Verification of Fire Alarms**	NO	YES/NO
	YES: Implemented on detection of smoke or fire for verification. Power to the smoke detector(s) in the affected zone is cut off and restored after the time defined in *Switched Auxiliary Break*, page 5-3. If a subsequent detection occurs in the same zone within 1 minute of the first detection, the system emits a fire alarm. **NO:** No fire alarm verification takes place. **NOTE:** This feature is supported through **any** Utility Output that is defined as Switch AUX.		
1 2 11	**Audible Panic**	NO	YES/NO
	YES: Any internal sirens operate when a "Police Alarm" is initiated at the keypad or when a Panic Zone is activated. **NO:** No internal siren operation occurs during a keypad "Police Alarm," making the alarm truly "silent" (Silent Panic). **NOTE:** The system also transmits a Panic report to the MS.		
1 2 12	**Buzzer-->Bell**	NO	YES/NO
	YES: If an alarm occurs when the system is armed in the STAY mode, each keypad sounds for 15 seconds before the external sounders operate. **NO:** An alarm in the STAY mode causes each keypad and any internal sounders to operate simultaneously.		

System: System Control

Quick Keys	Parameter	Default	Range
1 2 13	**Alarm ZE Cut**	NO	YES/NO
	YES: Produces an alarm if the communication between the Main Panel and any expander is lost. A report is transmitted to the MS.		
	NO: No alarm occurs. The system, however, produces a local trouble indication.		
1 2 14	**Fire Temporal Pattern**	NO	YES/NO
	YES: During a fire alarm, the external sounders produce a pattern of three short bursts, followed by a brief pause.		
	NO: During a fire alarm, the flow of sounds produced by the external sounder is a pattern of 2 seconds ON, then 2 seconds OFF.		
1 2 15	**Code Grand Master**	NO	YES/NO
	YES: Only a user with the Grand Master Authority Level can change all User Codes, along with the TIME and DATE.		
	NO: Users with the Master and Manager Authority Levels can change their own User Codes, all codes with a lower Authority Level, and the TIME and DATE.		
1 2 16	**Audible Jamming**	NO	YES/NO
	Relates to the **Jamming Time** parameter, described on page 5-4.		
	YES: Once the specified time is reached, the Main Panel activates any internal sounders and sends a Report Code to the MS. (Refer to *Jamming Trouble*, page 5-102.)		
	NO: Same as above, except the internal sounders do not operate.		
1 2 17	**Technician Tamper**	NO	YES/NO
	YES: It is necessary to enter the Installer Code to reset a Tamper Alarm (indicated by a lit keypad Tamper / LED). Therefore, Tamper Alarm (and Tamper / LED) resets require the intervention of the MS. However, the system can still be armed although the Tamper / LED is on.		
	NO: A Tamper Alarm (and the resulting Tamper / LED) is reset by correcting the problem, requiring no MS help.		
1 2 18	**Technician Reset**	NO	YES/NO
	YES: It is necessary to enter the Installer Code to reset an alarmed partition after it's been disarmed. This requires the intervention of the MS.		
	NOTE:		
	Before the **READY/** ✓ LED can light, all zones within the partition must be secured.		
	NO: Once an alarmed partition is reset, the **READY** /✓ LED lights when all zones are secured.		
1 2 19	**Abort Alarm**	NO	YES/NO
	YES: If an alarm is sent in error, it is possible for the MS to receive an Abort Alarm Code, sent subsequent to the initial Alarm Code. This happens if a valid User Code is entered to reset the alarm within 90 seconds of initiation.		
	NO: No Abort Alarm Code can be sent once an alarm has been triggered.		

System: System Control

Quick Keys	Parameter	Default	Range
1 2 20	**Summer/Winter Clock**	NO	YES/NO

YES: The ProSYS automatically sets its Time of Day clock one hour ahead in the spring (on the last Sunday in March) and one hour back in the Autumn (on the last Sunday in October).

NO: No automatic time accommodation is made.

Quick Keys	Parameter	Default	Range
1 2 21	**Forced Keyswitch Arming**	YES	YES/NO

YES: Keyswitch or Proximity Key arming is performed on any partition. Any violated (not READY) zone(s) in the partition will be bypassed automatically. The partition is then "force armed," and all intact zones are capable of producing an alarm.

NO: The partition cannot be armed using a keyswitch or Proximity Key until all violated (not READY) zones are secured.

Quick Keys	Parameter	Default	Range
1 2 22	**Pager**	NO	YES/NO

Relates to the use of an alphanumeric pocket pager with the option to notify the customer when an event occurs. The pager's phone number must be programmed as a Follow-Me device in the ProSYS's User Functions.

YES: When a call is made, event information is displayed on the alphanumeric pager.

The following examples and tips clarify the **YES** option.

1. Enter the phone number, as described in the *ProSYS User's Manual,* by entering the letter **[B]** (which instructs the dialer to wait a fixed period of time before continuing).
2. Add the partition number to which the Follow-Me relates.
3. The following messages are delivered automatically to the pager.

Displayed	Meaning
1#	The system (or partition) is armed.
2#	The system (or partition) is disarmed.
3#	The system (or partition) is in ALARM mode.

In the example below, the first column displays the characters that are added after you enter the letter **[B]**:

Characters Added After [B]	If Displayed	Meaning
1	11#	Partition 1 is armed.
2	21#	Partition 2 is armed.
3	32#	Partition 3 is disarmed.
8	83#	Partition 8 is in ALARM mode.

NO: The ProSYS calls a pager during an alarm situation only in the partition for which it is programmed as a Follow-Me device. There are no enhancements to the standard message.

System: System Control

Quick Keys	Parameter	Default	Range
1 2 23	**Arm Pre-Warning**	YES	YES/NO
	Related to auto arm/disarm operation. **YES:** For any partition(s) set up for Auto Arming, an audible Exit Delay (warning) countdown will commence 4.25 minutes prior to the automatic arming. (Refer to the user's Daily Arm function in the *ProSYS User's Manual* for additional details.) During this period, Exit Delay beeps will be heard in the keypads assigned to these partitions. You can enter a valid User Code at any time during the countdown to delay the partition's automatic arming by 45 minutes. When an "auto-armed" partition is disarmed, as described above, it can no longer be automatically armed during the current day. The extended 4.25 minutes warning does not apply to automatic STAY mode arming. **NO:** Auto Arming for any programmed partition(s) takes place at the designated time. The programmed Exit Delay period and any audible signal occur as expected.		
1 2 24	**Low Battery Arm**	YES	YES/NO
	YES: Allows arming of the system when a low battery condition is detected (also in the Power Supply expansion module). **NO:** Does not allow arming of the system when a low battery condition is detected.		
1 2 25	**Engineer Tamper**	NO	YES/NO
	YES: After a Tamper alarm, the system is not ready to arm and the TAMPER / LED is not restored. This requires the intervention of the MS. **NO:** After a Tamper alarm is restored, the system is ready.		
1 2 26	**Blank Display**	NO	YES/NO
	YES: One minute after the last keypad operation, the display will appear blank. After pressing any key, an **Enter Code** message will be displayed. After the code is entered, the display returns to the normal operation mode. Select this option for keypads that can be viewed from outside the protected area to disguise the system status. **NO:** The keypad display operates normally.		
1 2 27	**24 Hour Bypass**	NO	YES/NO
	YES: It is possible for the user to bypass a 24-hour zone. **NO:** It is not possible for the user to bypass a 24-hour zone.		

System: System Control

Quick Keys	Parameter	Default	Range
1 2 28	**IMQ Install**	NO	YES/NO

YES: Causes the following parameters to function as follows:

- **Auto Arm Bypass:** If there is an open zone during the Auto Arm process, the system will be armed, and an alarm will be sounded (unless the open zone is closed).
- **Guard User:** If a Guard user disarms a partition, the system will be armed automatically after the predefined time period (refer to *Guard*, page 5-5). If there is an open zone during the arming process, the system will be armed, and an alarm will be sounded (unless the open zone is closed).

NO: Causes the following parameters to function as follows:

- **Auto Arm Bypass:** If the Auto Arm programming arms the system and there is an open zone during the auto arm, the system will bypass the open zones and arm the system.
- **Guard User:** If a Guard user disarms a partition, the system will be armed automatically after the predefined time period (refer to *Guard*, page 5-5). If there is an open zone during the arming process, the partition will be bypassed.

Quick Keys	Parameter	Default	Range
1 2 29	**Grand Master Authority/Partition**	YES	YES/NO

YES: Specifies that the allowed partitions and the authority level of a user can be changed by the Installer (Installer menu) or the Grand Master (User menu).

NO: Specifies that only the Installer can change the partition and the authority level of a user from the Installer programming menu.

Quick Keys	Parameter	Default	Range
1 2 30	**Double Code**	NO	YES/NO

Requires two User Codes or proximity cards to be entered in order to disarm the system, which provides a higher level of security. In addition, only the common partitions between the two users will be disarmed.

YES: To disarm the system, two users must enter their codes or pass their proximity cards one after the other. The time between entering the two User Codes is 60 seconds. If the second code is entered after 60 seconds, 3 error beeps will be sounded.

NO: Enables any user, with the appropriate authority, to disarm the system using only one User Code or proximity card.

NOTES:

When using the **Double Code** feature, there will not be a restriction in operating with one user through the Electronic Key or Access Control module.

The **Maid**, **Arm Only**, **UO Only**, and **Guard** authority levels cannot be used to perform double code disarming.

Quick Keys	Parameter	Default	Range
1 2 31	**Disarm Stop FM**	YES	YES/NO

YES: The Follow-Me calls will stop when the partitions are disarmed by a User Code or proximity card.

NOTES:

When a latched keyswitch is activated, you can **only** disarm the system by releasing the latched keyswitch.

When the Advanced Digital Voice module is connected to the system, the **Disarm Stop FM** feature acts as **NO** even if it is defined as **YES**.

NO: The Follow-Me calls will continue to be made when the partitions are disarmed by a User Code or proximity card.

System: System Control

Quick Keys	Parameter	Default	Range
1 2 32	**Global Follower**	YES	YES/NO
	YES: Specifies that all zones (that are programmed to follow an Exit/Entry Delay time) will follow the Exit/Entry Delay time of any armed partition. **NO:** Specifies that all zones (that are programmed to follow an Entry Delay time) will follow the Entry Delay time of only the partitions to which they are assigned.		
1 2 33	**Area**	NO	YES/NO
	Changes the system operation to Area instead of Partition, which then changes only the operation of the common zone. **YES:** When selected, the following points are relevant: ♦ The common zone will be armed after any partition is armed. ♦ The common zone will be disarmed only when all partitions are disarmed. **NO:** When selected, the following points are relevant: ♦ The common zone will be armed only when all partitions are armed. ♦ The common zone will be disarmed when any partition is disarmed.		
1 2 34	**Disable Keypad When Auto Disarm Exists**	NO	YES/NO
	YES: When a partition is armed manually or in AUTO ARM mode, and an Auto Disarm time is defined, this parameter specifies that all the keypads that are masked to this partition will not function and that it will be impossible to disarm the relevant partition. **NOTE:** The partition can be disarmed only by using the Upload/Download software or the Auto Disarm function. **NO:** When a partition is armed manually or in AUTO ARM mode, and an Auto Disarm time is defined, the relevant keypads will function normally.		
1 2 35	**Audible Proximity Tamper**	NO	YES/NO
	This parameter relates to the BUS siren. **YES:** A proximity anti approach violation will activate the siren. **NO:** A proximity anti approach violation will not activate the siren and will be regarded as trouble by the system.		
1 2 36	**Anti Mask = Tamper**	NO	YES/NO
	Used to determine the operation of Anti Masking detection in a BUS zone. **YES:** Anti mask violation will activate tamper alarm. **NO:** Anti mask violation will be regarded as trouble event.		
1 2 37	**Prox AM=Tamper**	NO	YES/NO
	Used to determine the operation of the proximity anti masking detection indicated by the MW channel in the WatchOUT DT detector. **YES**: Proximity anti mask detection will activate the tamper alarm. **NO**: Proximity anti mask detection will be regarded as a trouble event. Note that Proximity AM operates for approximately 2.2 seconds when the detector is approached in close proximity. Ensure that Prox Anti Mask has been enabled when configuring the WatchOUT DT BUS zone parameters ([2][0][3][zz][8]).		

System: System Control

Quick Keys	Parameter	Default	Range
1 2 38	**Siren Auxiliary = Tamper**	NO	YES/NO
	This parameter relates to the BUS siren. **YES:** A siren auxiliary trouble will be regarded as tamper alarm by the system. **NO:** A siren auxiliary trouble will be regarded as trouble by the system.		
1 2 39	**GSM Pre Alarm Indication**	NO	YES/NO
	Related to the GSM/GPRS module. This parameter specifies if the ProSYS will send a pre alarm message to the GSM when an entry delay starts. **YES**: The ProSYS will send the GSM a pre alarm signal at the beginning of the entry delay. If the GSM does not receive a cancellation signal from the ProSYS at the end of the entry time, it will send a burglar message report to the MS. **NO**: No pre alarm indication is initiated to the GSM.		
1 2 40	**Disable GSM Battery**	NO	YES/NO
	This parameter indicates if there will be a fault indication when no backup battery is connected to the GSM/GPRS module. **NO**: The GSM low battery indication is enabled. Use this option when the GSM is installed in its own casing and its backup battery is connected. **YES**: GSM low battery indication will be disabled. Use this option when the GSM module in installed inside the casing of the ProSYS. No battery is connected to the GSM battery connectors.		

1 3 System: Set Clock

The Set Clock menu enables you to set the system's date and time.

➢ **To access the Set Clock menu:**

1. Access the System menu, as described on page 5-2.
2. From the System menu, press **[3]** to access the Set Clock menu options. The following display appears:

```
SET CLOCK:
1)SYSTEM DATE ↓
```

3. Access and configure the parameters in the Set Clock menu, as follows:

System: Set Clock

Quick Keys	Parameter	Default	Range
1 3 1	**System Date**	JAN 01 2000 (SAT)	MM DD YYYY (DAY)
	Sets the current DATE. (Refer to *Chapter 4, Programming the ProSYS*, for instructions for using the keypad.)		
1 3 2	**System Time**	00:00	HH:MM
	Sets the current TIME (in 24-hour format).		

1 4 System: Windowing

The Windowing menu enables you to define a time window and its effective days for Reporting of Opening/Closing signals when the system is either disarmed or armed outside of the specified time window.

➢ **To access the Windowing menu:**

1. Access the System menu, as described on page 5-2.
2. From the System menu, press **[4]** to access the Windowing menu options. The following display appears:

```
WINDOWING:
1)WINDOW START ↓
```

3. Access and configure the parameters in the Windowing menu, as follows:

System: Windowing

Quick Keys	Parameter	Default	Range
1 4 1	**Window Start**	HR:00 MIN:00	00-24 hours 00-59 minutes
	Sets the window's START time (in 24-hour format).		
1 4 2	**Window Stop**	HR:00 MIN:00	00-24 hours 00-59 minutes
	Sets the window's STOP time (in 24-hour format).		
1 4 3	**Window Days**	All	Sunday (Y/N) through Saturday (Y/N)
	Sets the days of the week in which the window is activated. Use the Status / ? or Bypass / ? keys to select the days of the week. Use the Stay / key to toggle between **Y** and **N** to define if the window is active for the given day. The window and the days chosen here also apply to the automatic arming and disarming of the system. (Refer to the *ProSYS User's Manual* for additional details.)		

1 5 System: System Labels

The System Labels menu enables you to modify the labels displayed by the LCD keypad that identify the system and partition labels.

Entering a New Label Using the LCD Keypad

You can rename the labels that identify zones and partitions by changing the default labels (**Partition 1**, **Partition 2**, and so on) to, for example, **The Jones's**, **Sales Dept**, or **Mastr Bedr** as appropriate.

➢ **To enter a new label:**

Use the keys on the keypad to produce characters according to the table below. Pressing a particular key, toggles between the characters available from that key in the sequence listed below followed by a blank space. The ProSYS permits a total of 74 characters (letters, numbers, and symbols) for use in labeling.

NOTE:

The data sequence of each key in the following table is suitable only for the English version.

KEY	DATA SEQUENCE													
1	1	A	B	C	D	E	F	G	H	I	J	K	L	M
2	2	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
3	3	!	"	&	'	:	–	.	?	/	(	)		
4	4	a	b	c	d	e	f	g	h	i	j	K	l	m
5	5	n	o	p	q	r	s	t	u	v	w	X	y	z
6 - 0	Each of these keys toggles between producing their number and a blank space.													
Stay / 8	Use this button to toggle forward through the available characters.													
Arm / 0	Use this button to toggle backward through the available characters.													
Status / ? Bypass / ?	To move the cursor to the left, press the UP arrow button (**STAT**). To move the cursor to the right, press the DOWN arrow button (**BYP**).													
# Disarm / #/6	To enter a completed label into the system, press **Enter**.													

The number of allowed characters for each type of label varies, as follows:

- **Zone Label:** Up to 15 characters
- **Partition Label:** Up to 12 characters
- **Programmable Output Label:** Up to 12 characters
- **Message to the User Label:** Up to 12 characters
- **Service Information Label:** Up to 16 characters
- **Service Name Label:** Up to 16 characters
- **System Global Label:** Up to 16 characters
- **User Label:** Up to 10 characters

➢ **To access the System Labels menu:**

1. Access the System menu, as described on page 5-2.
2. From the System menu, press **[5]** to access the System Labels menu options. The following display appears:

```
SYSTEM LABELS:
0)GLOBAL                ↓
```

3. Access and configure the parameters in the System Labels menu, as follows:

System: System Labels

Quick Keys	Parameter	Default	Range
1 5 0	**Global**	Security System	Any 16 characters
	Edits the global (system) label for viewing during Download sessions.		

System: System Labels

Quick Keys	Parameter	Default	Range
1 5 1 to 8	**Partitions 1 through 8**	Partitions 1 through 8	Any 12 characters

Partitions 1 through 8.

Example: The example below describes how to edit each partition label.

TO ASSIGN *THE JONES'S* NAME TO PARTITION 1, FOLLOW THE STEPS BELOW:

1. Press **[1]** for partition 1 and press Disarm/#/6.
2. Press the **[2]** key repeatedly until a **T** appears in the display; press the Bypass/? key once to move the cursor to the right.
3. Press the **[4]** key repeatedly until an **h** appears in the display; again, press the Bypass/? key to advance the cursor.
4. Press the **[4]** key repeatedly until an **e** appears and press the Bypass/? key to advance the cursor.
5. Press the **[6]**, **[7]**, **[8]**, **[9]**, or **[0]** key to create a space and press the Bypass/? key to advance the cursor.
6. Press the **[1]** key until a **J** appears.
7. Use the elements of this procedure to assign the remaining Partition Labels as described in *Entering a New Label Using the LCD Keypad*, page 5-13.

1 6 System: Tamper Sound

The Tamper Sound menu contains parameters that enable you to set the sound(s) that will be produced by the ProSYS after a Tamper violation of a keypad and/or an expansion module.

➢ **To access the Tamper Sound menu:**

1. Access the System menu, as described on page 5-2.
2. From the System menu, press **[6]** to access the Tamper Sound menu options. The following display appears:

```
TAMPER SOUND:
5)BELL /A BUZ/D
```

3. Access and configure the parameters in the Tamper Sound menu, as follows:

System: Tamper Sound

Quick Keys	Parameter	Default	Range
1 6 1 to 5	**TAMPER SOUND**	BELL/A BUZZER/D	1 to 5

Sets the sound(s) produced by a Tamper violation of a keypad and/or an expansion module, as follows:

Key	Sound
1	Silent
2	Bell (External Siren) Only
3	Buzzer (Keypad Piezo) Only
4	Bell + Buzzer
5	Bell/A Buzzer/D

System: Tamper Sound

Quick Keys	Parameter	Default	Range
	NOTE: If you select the last option (**5**), during a Tamper alarm, a bell will sound when the system is armed, and a buzzer will sound when the system is disarmed.		

[1] [7] System: Default Enable/Disable

Default: Enable

Range: Enable/Disable

The Default Enable/Disable menu contains parameters that relate to what happens if the Main Panel's DEFAULT (J2) Jumper is in place when power to the Main Panel is switched off and then on.

➢ **To access the Default Enable/Disable menu:**

1. Access the System menu, as described on page 5-2.
2. From the System menu, press **[7]** to access the Default Enable/Disable menu options. The following display appears:

```
DEFAULT EN/DIS:
DEFAULT ENABLE
```

3. Select the required option, as follows:
   - **ENABLE:** The Main Panel loses its programmed configuration, including all Labels and User/Installer Codes. It returns to its original, factory default configuration. It can then be reprogrammed by any user who knows the default User and Installer Codes.
   - **DISABLE:** The system cannot be returned to the manufacturer's default settings by an unauthorized user. The Main Panel maintains its previously programmed configuration, keeping all Parameters, Labels, and User/Installer Codes intact. As with any instance of a total loss of power, you must reset the system's TIME and DATE.

[1] [8] System: Service Information

The Service Information menu supplies servicing information accessible to the system's users.

➢ **To access the Service Information menu:**

1. Access the System menu, as described on page 5-2.
2. From the System menu, press **[8]** to access the Service Information menu options. The following display appears:

```
SERVICE INFO:
1)SERV. NAME      ↓
```

3. Access and configure the parameters in the Service Information menu, as follows:

System: Service Information

Quick Keys	Parameter	Default	Range
[1] [8] [1]	**Service Name**		Any 16 characters
	Enables you to insert and/or edit the name of the MS from whom service may be obtained. For additional details about how to enter a label, refer to *Entering a New Label Using the LCD Keypad*, page 5-13.		

System: Service Information

Quick Keys	Parameter	Default	Range
1 8 2	**Service Phone**		Any 16 characters

Enables you to insert and/or edit the service phone number.

1 9 System: System Version

The System Version menu supplies the current system version information.

➢ **To access the System Version menu:**

1. Access the System menu, as described on page 5-2.
2. From the System menu, press **[9]** to access the System Version menu option. The system version with the software's checksum number is displayed.

[2] Zones

The Zones menu provides access to submenus and their related parameters that are used for programming the characteristics of each of the system's protected zones.

You can program by zone or by category. The first submenu allows you to program all parameters for each zone one by one. You can also program one or more zones by category using the following sub-menus: Partitions/Groups, Zone Type, Zone Sound, Termination, Loop Response, Cross Zone, and Labels.

After you access the Zones menu from the main Installer Programming menu, as described in this section, you can access the following submenus:

[2][1] **One By One**, page 5-18

[2][2] **Partitions/Groups**, page 5-20

[2][3] **Zone Type**, page 5-21

[2][4] **Zone Sound**, page 5-25

[2][5] **Termination**, page 5-26

[2][6] **Loop Response**, page 5-28

[2][7] **Cross Zones**, page 5-29

[2][8] **Labels**, page 5-31

[2][9] **Maintenance**, page 5-31

[2][0] **Miscellaneou**s, page 5-38

➢ **To access the Zones menu:**

- From the main Installer Programming menu, press **[2]**, or press the Status/ ? or Bypass/ ? keys until you find the number **[2] Zones** option and then press #Disarm/ #/6. The first submenu (ONE BY ONE) appears:

```
SUBJECT: ZONES
1) ONE BY ONE      ↓
```

- You are now in the Zones menu and can access the required submenus, as described in the following sections.

[2][1] Zones: One by One

The One by One menu contains parameters that enable you to program each of the following:

- Zone Partitions
- Zone Group
- Zone Type
- Zone Sound
- Zone Termination
- Zone Loop Response
- Zone Label

The following procedure describes how to program the full complement of parameters for each zone on a one-by-one basis.

➢ **To access the One by One menu:**

1. Access the Zones menu, as described on page 5-18.
2. From the Zones menu, press **[1]** to access the One by One menu options. The following display appears:

```
ZONE ONE BY ONE
ZONE#=01 (mm:zz)
```

NOTES:

In the **mm:zz** designation, the **mm** = the module ID number, and the **zz** = the zone number for this module (the number next to the terminal block on the expander).

In the ProSYS 128, the zone numbers are represented by three digits (**zzz**). For example, Zone 1 will be **001**.

3. Specify a two-digit zone number from which you want to start programming (for example, 01) and press (#/Disarm)/ (#/6) again to access the category on Partition Assignments. The following display appears:

```
P=12345678 Z=XX
  Y.......
```

NOTES:

The **XX** in the **Z=XX** designation is for the zone number.

In a multi-partition system, a zone can be assigned to more than one partition.

A system without partitions is regarded as having a single partition (meaning **Partition 1**).

4. Use keys **[1]** to **[8]** to toggle the partition status between **[Y] YES** and **[N] NO**.
5. Press (#/Disarm)/ (#/6) to proceed to Zone Groups.
6. Use the (Status)/ (?) or (Bypass)/ (→) keys to select the group, use the (Stay)/ (🔒) key or the **A/B/C/D** keys to toggle between **[Y] YES** and **[N] NO** in the following display, and then press (#/Disarm)/ (#/6):

```
GROUP = ABCD Z=01
        ....
```

7. Press (#/Disarm)/ (#/6) to proceed to Zone Types.
8. To program Zone Types, as well as the other four zone categories, select the following options (refer to the following pages for further instructions):
   - **Zone Type:** Select a type and press (#/Disarm)/ (#/6).
   - **Zone Sound:** Select a sounding method and press (#/Disarm)/ (#/6).
   - **Zone Termination:** Select a termination and press (#/Disarm)/ (#/6).
   - **Loop Response:** Select a loop response and press (#/Disarm)/ (#/6).
   - **Zone Labels:** Assign a label and press (#/Disarm)/ (#/6).

IMPORTANT:

- When using the One by One method, the listing of each zone's parameters is sequential. Once Zone 1's parameters have been programmed, they are followed by Zone 2's, then Zone 3's, and so forth.

- To program one or more of the system's zones using the One by One method, changes made to any (or all) of the Zone parameters will NOT be recorded without going through the One by One list, ending with the **Zone Labels** parameter of the last zone you want to program.
- After making changes to the **Zone Labels** parameter, press (#/Disarm), (#/6). This produces a one-second tone and assures that change(s) you make to the zone programming are recorded when you exit the One by One programming mode.
- As mentioned before, you can select a single parameter and program (or review) it for each of the system's zones, as follows:
  [2] Partitions/Groups, below
  [3] Zone Type, page 5-21
  [4] Zone Sound, page 5-25
  [5] Termination, page 5-26
  [6] Loop Response, page 5-28
  [8] Zone Labels page 5-31

2 2 Zones: Partitions

Default: All zones are assigned to Partition X

Range: Partitions 1 to 8

The Partitions menu contains parameters that enable you to program the partition assignment for each zone.

➢ **To access the Partitions menu:**

1. Access the Zones menu, as described on page 5-18.
2. From the Zones menu, press **[2]** to access the Partitions menu options. The following display appears:

```
ZONE PARTITION
ZONE#=01 (00:01)
```

3. Specify a two-digit zone number and press (#/Disarm), (#/6). The following display appears:

```
P=12345678 Z=XX
  Y.......
```

NOTES:

The **XX** in the **Z=XX** designation refers the zone number.

In a multi-partitioned system, a zone can be assigned to more than one partition.

A system without partitions is regarded as having a single partition (meaning **Partition 1**).

4. Use keys **[1]** to **[8]** to toggle the partition status between **[Y] YES** or **[N] NO**.
5. Press (#/Disarm), (#/6). The following display appears:

```
GROUP = ABCD Z=01
        Y...
```

6. Use the (Status)/(?) or (Bypass)/(→) keys to select the group and use the (Stay)/(0) key to toggle between **[Y] YES** and **[N] NO**.

NOTE:

Each partition has 4 groups. The zone group definition is common to each of the partitions assigned to the zone.

2 3 Zones: Zone Type

The Zone Type menu contains parameters that enable you to program the zone type for any zone. Setting the zone type is partly determined by the arming levels. Three arming levels exist, as follows:

- **Disarm:** The system reacts only to those zones defined as 24 HR, Fire, Panic, and Trouble.
- **Arm:** The system reacts to all zones.
- **Stay:** The system does not react to zones defined as internal (home). This setting allows freedom of movement in those zones.

There are 23 zone types in the system, as described in the following procedure.

➢ **To access the Zone Type menu:**

1. Access the Zones menu, as described on page 5-18.
2. From the Zones menu, press **[3]** to access the Zone Type menu options. The following display appears:

```
ZONE TYPE
ZONE#=01 (00:01)
```

3. Specify a two-digit zone number and press Disarm / #/6.
4. Access and configure the parameters in the Zone Type menu, as follows:

Zones: Zone Type

Quick Keys	Parameter	Default	Arming Level/Range
2 3 ZZ + Disarm / #/6 00	**Not Used**	NONE	
	Disables a zone. All unused zones should be given this designation.		
2 3 ZZ + Disarm / #/6 01	**Exit/Entry 1**		Arm/Stay
	Used for Exit/Entry doors. Zones in the Exit/Entry path, that when violated do not cause an intrusion alarm during the **Exit/Entry Delay** periods (refer to *Exit/Entry Delay 1* and *Exit/Entry Delay 2*, page 5-3). A zone must be secured during arming and when the delay expires. Use this zone to trigger the entry delay.		
2 3 ZZ + Disarm / #/6 02	**Exit/Entry 2**		ARM/STAY
	Same as above, except that the Exit/Entry 2 time period applies.		

Zones: Zone Type

Quick Keys	Parameter	Default	Arming Level/Range
2 3 ZZ + (#/Disarm) / (#/🔒) 03	**Exit (OP)/Entry**	Default for zone 1	ARM/STAY

Used for an exit/entry door, open during the armed period.

This zone behaves as described in the **Exit/Entry 1** parameter, shown above, except that, if faulted when the system is being armed, it does NOT prevent arming.

To avoid an intrusion alarm, it must be secured before the expiration of the **Exit Delay** period.

Quick Keys	Parameter	Default	Arming Level/Range
2 3 ZZ + (#/Disarm) / (#/🔒) 04	**Entry Follower**	Default for zone 2	ARM/STAY

Usually assigned to motion detectors and to interior doors protecting the area between the entry door and the keypad.

This zone(s) causes an immediate intrusion alarm when violated unless an Exit/Entry zone was violated first. In this case, Entry Follower zone(s) will remain bypassed until the end of the Entry Delay period.

Quick Keys	Parameter	Default	Arming Level/Range
2 3 ZZ + (#/Disarm) / (#/🔒) 05	**Instant**	Default for all zones except 1 and 2	ARM/STAY

Usually intended for non-exit/entry doors, window protection, shock detection, and motion detectors.

Causes an immediate intrusion alarm if violated after the system is armed or during the Exit Delay time period.

When Auto Arm and Pre-Warning are defined, the instant zone will be armed at the end of the Pre-Warning time period.

Quick Keys	Parameter	Default	Arming Level/Range
2 3 ZZ + (#/Disarm) / (#/🔒) 06	**I+Exit/Entry 1 (Interior+Exit/Entry 1)**		Arm

Used for Exit/Entry doors, as follows:

- If the system is armed in the AWAY (ARM) mode, the zone(s) provide a delay (specified by Exit/Entry 1) allowing entry into and exit from an armed premises.
- If the system is armed in the STAY mode, the zone is bypassed.

IMPORTANT:

For greater security when arming in the STAY mode, it is possible to eliminate the Entry Delay period associated with any zone(s), classified as *Exit/Entry Delay 1* by pressing the (Stay) / (🔒) key twice, one after another. In effect, this makes it an INSTANT zone during the STAY mode of operation.

Quick Keys	Parameter	Default	Arming Level/Range
2 3 ZZ + (#/Disarm) / (#/🔒) 07	**I+Exit/Entry 2 (Interior+Exit/Entry 2)**		Arm

Same as the **I+Exit/Entry 1** parameter, described above, but the Exit/Entry 2 time period is applicable.

Zones: Zone Type

Quick Keys	Parameter	Default	Arming Level/Range
2 3 ZZ + # Disarm / #/6 08	**I+Exit(OP)/Entry (Interior+Exit(OP)/Entry)**		Arm

Used for an exit/entry door that, for convenience, may be kept open when the system is being armed, as follows:

- In AWAY (ARMED) mode, refer to the explanation in Zone Type 03, page 5-22.
- In STAY (ARMED) mode, the zone will be bypassed.

Quick Keys	Parameter	Default	Arming Level/Range
2 3 ZZ + # Disarm / #/6 09	**I+Entry Follow (Interior+Entry Follower)**		Arm

Generally used for motion detectors and/or interior doors (for example, foyer), which would have to be violated after entry in order to disarm the system, as follows:

- In AWAY (ARM) mode, refer to the explanation in Zone Type 04, page 5-22.
- In STAY (ARM) mode, the zone will be bypassed.

Quick Keys	Parameter	Default	Arming Level/Range
2 3 ZZ + # Disarm / #/6 10	**I+Instant (Interior+Instant)**		Arm

Usually intended for non-exit/entry doors, window protection, shock detection and motion detectors.

- In AWAY (ARM) mode, a violation of this zone after the system is armed or during the Exit Delay time period causes an immediate intrusion alarm.
- In STAY (ARM) mode, the zone is bypassed.

Quick Keys	Parameter	Default	Arming Level/Range
2 3 ZZ + # Disarm / #/6 11	**UO Trigger**		Arm

For a device or zone, which if violated at any time triggers a previously programmed Utility Output, capable of activating an external indicator, relay, appliance, and so on.

Quick Keys	Parameter	Default	Arming Level/Range
2 3 ZZ + # Disarm / #/6 12	**Day Zone**		Arm

Usually assigned to an infrequently used door, such as an emergency door or a movable skylight. Used to alert the system user if a violation occurs during the disarmed period (trouble by day; burglary at night), as follows:

- With the system armed (either AWAY or STAY), the zone acts as an instant zone. A violation of this zone after the system is armed or during the Exit Delay time period causes an immediate intrusion alarm.
- With the system disarmed, a violation of this zone attempts to alert the user by causing the POWER /⏻ LEDs on all keypads to flash rapidly. This directs the user to view the system's TROUBLE indications.
- Optionally, such a violation can be reported to the MS as a Zone Trouble. (Refer to Report Codes: Miscellaneous, page 5-99.)

Zones: Zone Type

Quick Keys	Parameter	Default	Arming Level/Range
2 3 ZZ + (#/Disarm) / (#/6) 13	**24 Hours**		All
	Usually assigned to protect non-movable glass, fixed skylights, and cabinets (possibly) for shock detection systems. A violation of such a zone causes an instant intrusion alarm, regardless of the system's state.		
2 3 ZZ + (#/Disarm) / (#/6) 14	**Fire**		All
	For smoke or other types of fire detectors. This option can also be used for manually triggered panic buttons or pull stations (if permitted), as follows: ♦ If violated, it causes an immediate fire alarm, and the Fire/🔥 LED is lit (steady). ♦ A fault in the wiring to any fire zone causes a Fire Trouble signal (a rapid flashing of the keypads' FIRE /🔥 LED).		
2 3 ZZ + (#/Disarm) / (#/6) 15	**Panic**		All
	Used for external panic buttons and wireless panic transmitters. If violated, an immediate panic alarm is sounded (if the zone sound is not defined as silent), regardless of the system's state. An alarm display will not appear on the keypads. If violated, an immediate panic alarm is sounded, regardless of the system's state.		
2 3 ZZ + (#/Disarm) / (#/6) 16	**Special**		All
	For external auxiliary emergency alert buttons and wireless auxiliary emergency transmitters. If violated, an immediate auxiliary emergency alarm is sounded, regardless of the system's state.		
2 3 ZZ + (#/Disarm) / (#/6) 17	**Pulse Keyswitch**		
	Used to arm/disarm the system. Connect an external momentary action keyswitch to any zone terminals given this designation.		
2 3 ZZ + (#/Disarm) / (#/6) 18	**Exit Termination**		
	This type of zone is used to avoid a false alarm by acting like an Exit (OP)/Entry zone (see *Exit (OP)/Entry*, page 5-22). When triggered (after arming the system and closing the door **or** opening the door, arming the system, and closing the door), the system's Exit Delay time period will be shortened to 3 seconds. When you re-open the door, the entry time restarts.		

Zones: Zone Type

Quick Keys	Parameter	Default	Arming Level/Range
2 3 ZZ + (#/Disarm) / (#/6) 19	**Latch Keyswitch**		
	Connect an external SPST latched (non-momentary) keyswitch to any zone terminals given this designation and operate the keyswitch, as follows: ♦ After arming one or more partitions using the keyswitch and then disarming using the keypad, the related partitions will be disarmed. In order to arm the partition using the keyswitch again, turn the key to the disarm position and then to the arm position. ♦ If a keyswitch latch is assigned to more than one partition and one of the partitions is armed by using the keypad (the keyswitch stays in the disarm position), then: ▪ When changing the position of the keyswitch to the arm position, all the disarmed partitions, which belong to this keyswitch, will be armed. ▪ When turning the keyswitch to the disarm position, all the partitions will be disarmed.		
2 3 ZZ + (#/Disarm) / (#/6) 20	**Entry Follower + Stay**	All	
	Assigned to motion detectors and to interior doors protecting the area between the entry door and the keypad, as follows: ♦ In STAY (ARM) mode, a zone(s) given this designation behaves like an Exit/Entry zone and is subject to the Entry and Exit Delay time periods specified under Exit/Entry Delay 1. (Refer to Exit/Entry Delay 1, page 5-3.) ♦ In AWAY (ARM) mode, a zone(s) given this designation behaves like an Entry Follower Zone and causes an immediate intrusion alarm when violated unless an Exit/Entry zone was violated first. ♦ If so, an Entry Follower + Stay zone(s) remains bypassed until the end of the Entry Delay period.		
2 3 ZZ + (#/Disarm) / (#/6) 21	**Keyswitch Delay**		
	Used to apply the **Exit/Entry Delay 1** parameter to the momentary keyswitch operation. (Refer to *Keyswitch*, page 5-24.)		
2 3 ZZ + (#/Disarm) / (#/6) 22	**Latch KSW Delay**		
	Used to apply the **Exit/Entry Delay 1** parameter to the latched keyswitch operation. (Refer to *Latch Keyswitch*, page 5-25.)		

2 4 Zones: Zone Sound

The Zone Sound menu contains parameters that enable you to program the sound produced when a system zone triggers an alarm. Reports to the MS are not affected by any of the options in this menu.

➢ **To access the Zone Sound menu:**

1. Access the Zones menu, as described on page 5-18.
2. From the Zones menu, press **[4]** to access the Zone Sound menu options. The following display appears:

```
ZONE SOUND
ZONE#=01 (00:01)
```

3. Specify a two-digit zone number and press (#/Disarm), (#/6).
4. Access and configure the parameters in the Zone Sound menu, as follows:

Zones: Zone Sound

Quick Keys	Parameter	Default
2 4 ZZ + (#/Disarm), (#/6) 1	**Silent**	
	Produces no sound.	
2 4 ZZ + (#/Disarm), (#/6) 2	**Bell Only**	
	Activates the bell sounders for the duration of the Bell Timeout period, or until a User Code is entered, followed by use of the (#/Disarm)/ (#/6) key.	
2 4 ZZ + (#/Disarm), (#/6) 3	**Buzzer Only**	
	Activates each keypad's internal piezo buzzer.	
2 4 ZZ + (#/Disarm), (#/6) 4	**Bell + Buzzer**	Default for all zones
	Activates the bell sounders and the keypads' buzzers simultaneously.	
2 4 ZZ + (#/Disarm), (#/6) 5	**Door Chime**	
	The **Door Chime** parameter is used as an audible sounder to indicate the violation of a zone(s), as follows: ♦ If the system is DISARMED, the system's keypad buzzers make three momentary sounds whenever the zone is violated. ♦ If the system is ARMED, only the bell sounders will produce the alarm.	
2 4 ZZ + (#/Disarm), (#/6) 6	**(BELL/A BUZZER/D)**	
	In a case of alarm, the following occurs: ♦ In DISARM mode, only the buzzer will operate. ♦ In ARM mode, only the bell will operate.	

2 5 Zones: Termination

The Termination menu enables you to program the connection type used for each of the system's zones. The actual (physical) termination for each zone must comply with that selected in the zone termination menu.

➢ **To access the Termination menu:**

1. Access the Zones menu, as described on page 5-18.
2. From the Zones menu, press **[5]** to access the Termination menu options. The following display appears:

```
TERMINATION
ZONE#=01 (00:01)
```

3. Specify a zone number and press (#/Disarm)/(#/🔒).
4. Access and configure the parameters in the Termination menu, as follows:

NOTE:

When configuring the parameters in the table below, refer to *Figure 2-4, Zone Connection Diagrams* in *Chapter 2, Mounting and Wiring the Main Panel*, if required.

Zones: Termination

Quick Keys	Parameter	Default	Range
2 5 ZZ + (#/Disarm)/(#/🔒) 01	**N/C**		
	Uses normally-closed contacts and no terminating End-of-Line Resistor.		
2 5 ZZ + (#/Disarm)/(#/🔒) 02	**EOL**		
	Uses normally-closed (NC) and/or normally-open (NO) contacts in a zone terminated by a supplied 4.7 KΩ End-of-Line Resistor (provided).		
2 5 ZZ + (#/Disarm)/(#/🔒) 03	**DEOL**		
	Uses normally-closed (NC) contacts in a zone using 4.7 KΩ +6.8 KΩ End-of-Line Resistors to distinguish between alarms and tamper conditions. See *Figure 2-4: Zone Connection Diagram* in *Chapter 2, Mounting and Wiring the Main Panel*.		
2 5 ZZ + (#/Disarm)/(#/🔒) 04	**N/O**		
	Uses normally-open contacts and no terminating End-of-Line Resistor.		
2 5 ZZ + (#/Disarm)/(#/🔒) 05	**BUS Zone**		
	Use this option to define termination for any BUS zone. After pressing (#/Disarm)/(#/🔒) you need to assign the current programmed zone with a BUS zone number (ID field). The type field will be updated automatically when selecting the zone.		
2 5 ZZ + (#/Disarm)/(#/🔒) 06	**TEOL**		
	Uses normally-closed (NC) contacts in a zone to distinguish between alarms, tamper conditions and fault/AM conditions using 4.7 KΩ +6.8 KΩ + 12 KΩ End-of-Line Resistors.		
2 5 ZZ + (#/Disarm)/(#/🔒) 07	**BUS Zone Input N/C**		
	Use this option to define N/C termination (see above description) for the relay zone input that exists on a BUS zone detector.		

2 5 ZZ + (#/Disarm) / (#/6) 08	**BUS Zone Input EOL**
	Use this option to define EOL termination (see above description) for the relay zone input that exists on a BUS zone detector.
2 5 ZZ + (#/Disarm) / (#/6) 09	**BUS Zone Input DEOL**
	Use this option to define DEOL termination (see above description) for the relay zone input that exists on a BUS zone detector.
2 5 ZZ + (#/Disarm) / (#/6) 10	**BUS Zone Input N/O**
	Use this option to define N/O termination (see above description) for the relay zone input that exists on a BUS zone detector.
2 5 ZZ + (#/Disarm) / (#/6) 11	**BUS Zone Input TEOL**
	Use this option to define TEOL termination (see above description) for the relay zone input that exists on a BUS zone detector.

2 6 Zones: Loop Response

The Loop Response menu enables you to set the different times for which a zone violation must exist before the zone will trigger an alarm condition.

➢ **To access the Loop Response menu:**

1. Access the Zones menu, as described on page 5-18.
2. From the Zones menu, press **[6]** to access the Loop Response menu options. The following display appears:

```
LOOP RESPONS:
ZONE#=01 (00:01)
```

3. Specify a zone number and press (#/Disarm) / (#/6).
4. Access and configure the parameters in the Loop Response menu, as follows:

Zones: Loop Response

Quick Keys	Parameter
2 6 ZZ + (#/Disarm) / (#/6) 1	**Normal**
	400 ms (milliseconds).
2 6 ZZ + (#/Disarm) / (#/6) 2	**Long**
	1 second.

Zones: Loop Response

Quick Keys	Parameter
2 6 ZZ + (#/Disarm) / (#/6) 3	**Fast** 10 ms (milliseconds). This loop response time is usually used for devices that require very quick responses, such as shockwave detectors or keyswitches.
2 6 ZZ + (#/Disarm) / (#/6) 4	**Very Fast** 1 ms (millisecond). This loop response is usually used for shutters or other devices that require very quick responses. **Note:** This loop response time will be available only for zones located on the zone expander RP128EZ8F00A.
2 6 ZZ + (#/Disarm) / (#/6) 5 to 12	**Half Hour** **5 = 0.5 HR** **9 = 2.5 HRS** **6 = 1.0 HR** **10 = 3.0 HRS** **7 = 1.5 HRS** **11 = 3.5 HRS** **8 = 2.0 HRS** **12 = 4.0 HRS** **Notes:** 1. Loop response times 0.5 hour to 4 hours can be assigned only to zones 1 to 8 on the Main Panel or to zones located on the fast zone expander RP128EZ8F00A 2. The programming option of loop response 0.5 hour to 4 hours will be between 4-11 for zones located on the main menu while on the fast zone expander RP128EZ8F00A the programming location is between 5-12

2 7 Zones: Cross Zones

Default: No cross zoning

The Cross Zone menu is used for additional protection from false alarms and contains parameters that enable you to link together two related zones. Both must be violated within a designated time period (between 1 and 9 minutes) before an alarm occurs.

This type of linking is used with motion detectors in *hostile* or *false-alarm prone* environments.

NOTE:

The ProSYS allows 10 unique sets of zone links (pairs of zones), which can be manually specified, as required.

➢ **To access the Cross Zone menu:**

1. Access the Zones menu, as described on page 5-18.
2. From the Zones menu, press **[7]** to access the Cross Zone menu options. The first zone link appears:

```
ZONE CROSSING:
01) 01 WITH 01  ↓
```

3. Press (#/Disarm) / (#/6) to modify the first set (01) of zone links.

```
CROSSING SET 01:
1ST=01  2ND=01
```

4. Select the zone pairs manually, as required, by making changes to the number of the first zone in the set, followed by the number of the second zone. If necessary, use the Status/ ? or Bypass/ → keys to position the cursor.

NOTES:

Zones crossed with themselves are valid pairs. They need to register a violation twice to trigger the alarm. This process is known as Double Knock.

You may want to establish a number of zone links, but leave them deactivated at this time (see below).

5. Press #/Disarm/ #/6 to determine how the ProSYS will process violations of the paired zones.
6. Access and configure the paired parameters in the Cross Zone menu, as follows:

Zones: Cross Zone

Quick Keys	Parameter	Default
2 7 1	**Zone Crossing**	✓
	The Zone Crossing menu is used for additional protection from false alarms and contains parameters that enable you to link together two related zones. Both must be violated within a designated time period (between 1 and 9 minutes) before an alarm occurs. This type of linking is used with motion detectors in hostile or false-alarm prone environments. **NOTES:** The ProSYS allows 10 unique sets of zone links (pairs of zones), which can be manually specified, as required. Zones crossed with themselves are valid pairs. They need to register a violation twice to trigger the alarm. This process is known as Double Knock. You may want to establish a number of zone links, but leave them deactivated at this time (see below).	
2 7 1 1	**None**	
	Temporarily disables any associated zone pairings.	
2 7 1 2	**Ordered**	
	Effects an alarm so the first listed zone is tripped before the second.	
2 7 1 3	**Not Ordered**	
	Affects an alarm in which either zone in the pair may be tripped first. If this case, the specified zone order (1st, 2nd) has no bearing on the alarm activation.	

7. After choosing one of the above, press #/Disarm/ #/6 to define the maximum time-lapse interval between 1 and 9. The **Time Slot** parameter appears:

```
TIME SLOT: XX,YY
SIZE=1 MINUTES
```

8. Enter the time slot, meaning the maximum amount of time allowed between the triggering events for them to be considered a valid violation (**XX,YY** indicate the crossed zones).
   - **Default:** 1 min
   - **Range:** 1 to 9 minutes
9. Repeat the entire process, as required, for any additional zone links (up to 10).

2 8 Zones: Labels

The Labels menu enables you to create and/or edit up to 15 characters to describe each of the system's zones.

Default: Zone 01, Zone 02, Zone 03, Zone 04 and so on for each zone

Range: Any characters

➢ **To access the Labels menu:**

1. Access the Zones menu, as described on page 5-18.
2. From the Zones menu, press **[8]** to access the Labels menu options. The following display appears:

```
ZONES LABEL:
ZONE#=01 (00:01)
```

3. Press (# Disarm)/(#/6) to label Zone 01 (or enter another zone number). The following display appears:

```
ZONES LABEL: 01
ZONE 01
```

4. Refer to *Entering a New Label Using the LCD Keypad*, page 5-13, for details about how to enter a label.

2 9 Zones: Maintenance

The Maintenance menu provides some useful tools for system maintenance.

➢ **To access the Maintenance menu:**

1. Access the Zones menu, as described on page 5-18.
2. From the Zones menu, press **[9]** to access the Maintenance menu options. The following display appears:

```
ZONES MAINTENANCE
1)COPY ZONE          ↓
```

3. Press (# Disarm)/(#/6).
4. Access and configure the parameters in the Maintenance menu, as follows:

Zones: Maintenance

Quick Keys	Parameter
2 9 1	**Copy to a Zone**

Copies all the parameters belonging to a specified zone (except the Label parameter).

1. Press **[1]**. The following display appears:

```
COPY ZONES:
FROM: 01 TO: 01
```

2. Use the (Status)/(?) or (Bypass)/(→) keys or the **[1** to **9]** keys to select the zone from which a copy is to be made and the zone to which it is being copied.

   Using this function provides no confirmation before advancing to another Copy Zone opportunity.

Quick Keys	Parameter
	3. Press the * key to exit. The process is executed as the display is changed.
2 9 2	**Delete a Zone**
	Deactivates a designated zone by setting its Zone Type to *Not Used*, while maintaining all the previously programmed parameters. 1. Press **[2]**. 2. Use the Status/? or Bypass/→ keys or the **[1 to 9]** keys to select the zone that is to be deleted. This process can also be used to temporarily disable a zone from the protection scheme. 3. Confirm your choice by selecting either **[Y] YES** or **[N] NO** and pressing #Disarm/#/6. 4. Press the * key to exit. The process is executed as the display is changed.
2 9 3	**Add/Copy Partition**
	Assigns, to a designated partition, all the zones (and their respective parameters) belonging to a specified partition, while keeping the original partition intact. For example, copying Partition 1 to Partition 2 simply duplicates all Partition 1's zones in Partition 2. 1. Press **[3]**. 2. Use the cursor keys to select the source and destination partitions. Using this function provides no confirmation before advancing to another Add/Copy Partition opportunity. 3. Press the * key to exit. The process is executed as soon as the display is changed.
2 9 4	**Delete a Partition**
	Deletes a designated partition. Selecting this option removes all zones assigned to it, effectively removing the partition from the system. 1. Press **[4]**. 2. Use the cursor keys to select the partition that you want to delete. 3. Confirm your choice by selecting either **[Y] YES** or **[N] NO** and pressing #Disarm/#/6. 4. Press the * key to exit.

Quick Keys	Parameter
2 9 5	**Wireless Module Calibration**

Measures the RF noise that the receiver is picking up. This is used for jamming indication in order to eliminate false jamming alarms. The range is 00-99.

1. Press **[5]**. The following display appears:

```
CHOOSE WL ZE:
1) ID:1  TYP:WZ16
```

2. Select the wireless zone expander for which you want to establish the threshold level and press Disarm/ #/6. The following display appears, showing the current threshold level:

```
THOLD=XX  ZE:1
RE-CALIBRATION? N
```

3. To perform a new automatic calibration, use the Stay/ key to select
[Y] YES.
After the calibration process is finished, the new receiving threshold is displayed, as follows:

```
THOLD=XX ZE:1
NEW THOLD=XX
```

4. To confirm the new threshold, press Disarm/ #/6,
-OR-
To change the threshold manually, enter the required level and press Disarm/ #/6.

NOTES:
In order to ensure that a momentary high noise level (due to environmental reasons) will **not** cause a jamming alarm, you can set the threshold level to be **higher** than the calibrated level.

2 9 6	**Wireless Zone Allocation**

The following information relates to the assignment of zone attributes (for example, Zone ID, Partition, Type, Sound, and so on) to any ProSYS wireless detectors.

In order to receive data from wireless detectors, the ProSYS requires at least one Wireless Zone Expander.

In order for the system to allocate a wireless detector, the system must first be introduced to the detector, as follows:

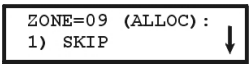
1. Press **[6]**. The following display appears:

```
ZONE ALLOCAT:
ZONE#=09 (1:01)
```

NOTE:
Wireless background information for the ProSYS is provided in the instructions provided with the Wireless expansion module and the system's individual transmitters.

Quick Keys	Parameter
2 9 6 ZZ + Disarm / #/6	**Wireless Zone Allocation Options**

1. Select the zone number intended for the first wireless transmitter. The first eight zones are reserved for the hardwired zones on the Main Panel. The following display appears:



2. Press the required option, as follows:
   - Press **[1]** to skip to the next transmitter assignment,
   - **-OR-**
   - Press **[2]** to overwrite the data into the selected location and allocate the transmitter to a zone,
   - **-OR-**
   - Press **[3]** to erase the allocation data in the selected location and then press **[Y] YES** or **[N] NO** to confirm your choice.
   - **-OR-**
   - Press **[4]** to choose supervision and then press **[Y] YES** or **[N] NO** to confirm your choice.

NOTE:

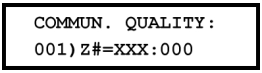
You can also use the Status / ? or Bypass / → keys to toggle between the options and then press **Enter**.

3. Press the * key to return to the higher programming level.

2 9 7	**Wireless Communication Test**

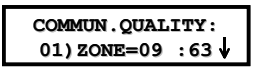
Performs a communication test between the transmitters and the receiver. The value presented is a number between 00-99 that indicates the signal strength.

1. Press **[7]**. The following display appears:



2. Press Disarm / #/6. The first wireless assigned zone appears.
3. In order to proceed, initiate a transmission from the selected zone. Allow a few seconds for the receiver to react.

   A number between 00-63 indicates the quality of communication with the 868.65 receivers or 00-99 with the 433.92 MHz receivers, as shown in the following display:



NOTE:

For more successful communication the strength of the signal should be higher than the RF noise that the receiver is picking up. If not, it is recommended to relocate the detector or the receiver or to use a repeater.

4. Use the Status / ? or Bypass / → keys to select the zone number for the next wireless transmitter.
5. Press the * key to return to the higher programming level.

Quick Keys	Parameter
2 9 8	**Zone Self-Test**

This feature provides an automated self-test for a selected group of localized intrusion sensors (for example, glass break detectors, sound discriminators and shock sensors) which respond to an artificial source of noise and/or vibration.

Automated self-testing is especially useful when sensors are placed in high security areas where failure cannot be tolerated.

Up to 16 zones can be designated for self-testing.

A sound or vibration generator should be used that can be placed close enough to the sensors to trigger them when the noise source is activated.

A Utility Output acts as the source of switched power for the noise/vibration generator (refer to *Sensors Test*, page 5-49). This is set to conform to the testing schedule. The schedule defines the time and day for the first test and sets the times for repeated tests over a 24-hour period.

A message is sent to the MS if all the related sensors are triggered during the test (if a Report Code has been defined). Refer to *Report Codes: MainTrouble*, page 5-94, for definitions.) With successful completion of the self-test, an entry is also placed in the system's Event Log.

If, during the test period, one or more of the sensors fails to trip, a *self-test failure* message is generated (refer to page 5-94) and sent to the MS. A record of the failure is also entered in the Event Log.

Refer to the procedures on the following pages for details about setting up the Zone Self-Test.

CHOOSING ZONES FOR SELF-TESTING:

1. Press **[8]**. The following display appears:

   ```
   ZONES FOR TEST
   01) NONE                ↓
   ```

2. Press (# Disarm)/ (#/6) to specify the first of 16 possible zones for self-testing. The following display appears:

   ```
   LOCATION 01:
   ZONE: 001 (0-128)
   ```

3. Enter the zone number of the first selected zone.
4. Use the (Status)/ (?) or (Bypass)/ (→) keys to position the cursor.
5. Press (# Disarm)/ (#/6).
6. Press (# Disarm)/ (#/6) again, and repeat step 2, above, for the next selected zone.
7. Continue this process until all zones are selected.
8. Press the (*) key to exit.

CHOOSING A TESTING SCHEDULE:

Default: 00 hours; 00 minutes

Range: 00 to 24 hours; 00 to 59 minutes

The following is a detailed procedure for using the **Zone Test Times** parameter (Quick Keys **[1] [1] [7]**, described on page 5-4.)

Quick Keys	Parameter

1. From the main Installer Programming menu, press **[1] [1]** and select option **[7]**. The following display appears:

```
TIME DEFINE:
7) Z. TEST TIMES
```

2. Press Disarm/ #/6. The following display appears:

```
ZONE TEST TIMES
1) Z. TST AT:
```

3. Press Disarm/ #/6 again. The following display appears:

```
START TEST AT:
HOUR:00 MIN:00
```

4. Define the time (in 24-hour format) for the first test to begin. The defaults are 00 hours and 00 minutes. The range is 00 to 24 hours and 00 to 59 minutes.
5. Use the Status/ ? or Bypass/ → keys to reposition the cursor.
6. Press Disarm/ #/6.
7. Press the Bypass/ → key once. The following display appears:

```
ZONE TEST TIMES
2) Z. TEST PERIOD
```

8. Press Disarm/ #/6. The following display appears:

```
ZONE TEST PERIOD
PERIOD:10 (00-24)
```

9. Insert the time interval, in hours, between tests. The default is 00 hours. The range is 00 to 24 hours.
10. Press Disarm/ #/6. Press the * key to exit.

SETTING UP THE UTILITY OUTPUT TO TRIGGER THE NOISE SOURCE:

(Refer also to *Sensors Test*, page 5-49.)

1. From the main Installer Programming menu, use the Status/ ? or Bypass/ → keys to locate the following display:

```
INSTALLER PROG:
3) UTIL OUTPUT
```

NOTE:
You can also access this display by pressing **[3]**.

2. Press Disarm/ #/6. The following display appears:

```
SELECT UO NUMBER:
UO=01 (0:1)
```

3. Choose a Utility Output to trigger the noise source by selecting an unused UO number (for example, **UO1**), using the numeric keys **[0 to 9]**. (Refer to *Wiring Zone Expansion Modules* in *Chapter 3, Installing External Modules and Devices*.)

Quick Keys	Parameter

4. Press Disarm/ #/6.
5. Press **[1]** to select **System**. The following display appears:

```
U0:01 FOLLOWS:
1-SYSTEM
```

6. Press Disarm/ #/6. The following display appears:

```
SYS. EVENT: UO=01
1) BELL FOLLOW
```

7. Press **[8]** to select the sensors test. The following display appears:

```
SYS. EVENT: U0=01
8) SENSORS TEST
```

8. Press Disarm/ #/6.
9. Select the manner in which the UO is to operate, by choosing **[2] PULSE N/O**. The following display appears:

```
PATTERN UO=01:
2) PULSE N/0
```

10. The UO, acting like a normally-open switch, is closed for a predetermined period, completing a circuit that activates a noise source.
11. Press Disarm/ #/6. The keypad displays the label for the UO.

```
LABEL FOR U0=01
OUTPUT 02
```

12. Accept or rename the label and press Disarm/ #/6.
13. Press the * key, as required, to return to the previous menus.

2 9 9 **Soak Test**

The Soak Test feature is designed to allow false alarming for predefined detectors to be bypassed from the system, while any alarms generated are displayed to the user for reporting to the MS. This is especially useful if Police response withdrawal is being threatened and a particular zone is causing unidentified problems.

Up to 8 zones can be placed on Soak Test. Any zone placed in the Soak Test list is bypassed from the system for 14 days and is automatically reinstated after that time if NO alarms have been generated by it.

If a zone in the Soak Test list has an alarm during the 14-day period, the keypad indicates to the user that the test has failed. After the user looks at the View Trouble option (described in the *ProSYS User's Manual*), the trouble message will be erased. This will be indicated in the event log, but no alarm will be generated. The alarmed zone's 14-day Soak Test period is then reset and restarted.

1. From the Installer Programming menu, press quick keys **[2] [9] [9]**. The following display appears:

```
ZONES FOR TEST
01) NONE
```

Zones: Maintenance

Quick Keys	Parameter

2. To put a zone on Soak Test, press Disarm/ #/6. The following display appears:

```
LOCATION 01:
ZONE: 000 (0-128)
```

3. Press the keys as per the zone number (e.g. **001** for zone 1), as shown in the following display:

```
LOCATION 01:
ZONE: 001 (0-128)
```

4. Press Disarm/ #/6.

```
ZONES FOR TEST
02) NONE
```

5. To add a second zone for Soak Test, press Disarm/ #/6 and repeat the procedure above,

   -OR-

   Press the * key to return to the previous menu.

2 0 Zones: Miscellaneous

The Miscellaneous menu enables you to enable or disable the forced arming option, to define number of pulses for a zone and define the parameters of BUS zones.

➢ **To access the Miscellaneous menu:**

1. Access the Zones menu, as described on page 5-18.
2. From the Zones menu, press **[0]** to access the Miscellaneous menu options. The following display appears:

```
MISCELLANEOUS
1) FORCED ARM
```

3. Access and configure the parameters in the Miscellaneous menu, as follows:

Zones: Miscellaneous

Quick Keys	Parameter	Default	Range
2 0 1	**Forced Arming**	DISABLED	ENABLED/DISABLED

This option enables or disables the use of forced arming for each of the system's zones, as follows:

- If forced arming is enabled for a particular zone, it allows the system to be armed even though this zone is faulted.
- When a zone(s) enabled for forced arming is faulted, the keypad's READY/ ✓ LED blinks during the disarm period.
- After arming, all zones enabled for forced arming are bypassed at the end of the Exit Delay time period.
- If a faulted zone (one enabled for force arming) is secured during the armed period, it will no longer be bypassed and will be included among the system's armed zones.

Quick Keys	Parameter	Default	Range

1. Press **[1]** and then press Disarm/ #/6. The following display appears:

```
FORCED ARM:
ZONE#=01 (00:01)
```

2. Enter the number of the zone for forced arming and press Disarm/ #/6.
3. Use the Status/ ? or Bypass/ → keys to select **ENABLE** or **DISABLE** and press Disarm/ #/6. The following display appears:

```
FORCED ARM:
2) DISABLE
```

4. Repeat steps 1 to 3 to change the forced arm status of any additional zone.
5. Press the * key to exit.

NOTE:
Report Codes for forced arming and zones bypassed in the process can be sent to the MS (refer to page 5-98).

Quick Keys	Parameter	Default	Range
2 0 2	**Pulsed Counter**	01	01-15

Specifies that the zone will count the number of open and close pulses received. If the zone exceeds the predefined number of pulses, the zone will be tripped and act according to its type definition. After a 25-second timeout, the pulse counter is restarted. The pulse length is the currently defined Loop Response time period. (Refer to *Zones: Loop Response*, page 5-27.)

NOTES:
For zones with a loop response time of 1 ms (millisecond), the pulse count feature will be applicable only for zones on the zone expander RP128FZ0800A. Zones with a loop response time between 0.5 hours and 4 hours will be applicable to the 8 zones on the Main Panel and to zones on the zone expander RP128FZ0800A. The Pulsed Count feature is NOT applicable to the zones on the zone expanders defined as ZE08, ZE16, WZ08, and WZ16.

1. Press **[2]** and then press Disarm/ #/6. The following display appears:

```
PULSE COUNT:
ZONE#=001(0:01)
```

2. Enter the number of the zone and press Disarm/ #/6. The following display appears:

```
PULSE COUNT: 001
PULSE: 01 (01-07)
```

3. Define the number of pulses for the zone between 01-07.
4. Repeat steps 1 to 3 to define the pulse count for any additional zone, as required.

Zones: Miscellaneous

Quick Keys	Parameter	Default	Range
2 0 3	**BUS Zone Parameters**		

The BUS Zone Parameters menu contains parameters that enable you to program the special parameters of a BUS zone. The options are determined according to the BUS detector type:

- **Lunar Grade 3**: A dual technology ceiling detector with a mounting height of up to 8.6m (28ft) that incorporates Anti-Cloak™ Technology (ACT).
- **WatchOUT DT**: A dual technology outdoor detector with signal processing based on two Passive Infrared (PIR) channels and two Microwave (MW) channels.
- **WatchOUT PIR:** An outdoor detector with signal processing based on two Passive Infrared (PIR) correlated channels
- **WatchIN DT Grade 3**: A dual technology Grade 3 industrial detector with signal processing based on two Passive Infrared (PIR) channels and two Microwave (MW) channels.
- **iWISE DT Grade 2**: A motion detector incorporating the Anti-CloakTM Technology (ACT). It adheres to environmentally friendly guidelines and is available in 15m and 25m models
- **iWISE QUAD Grade 2**: A motion detector incorporating Quad PIR technology
- **iWISE DT Grade 3:** A motion detector incorporating both Anti-Mask and Anti-Cloak™ Technologies (ACT). It adheres to environmentally friendly guidelines and is available in 15m and 25m models.
- **iWISE QUAD Grade 3:** A motion detector incorporating Anti-Mask and Quad PIR technologies.

Use the instructions below to set parameters for the relevant BUS zone detector.

➢ **To configure the BUS Zone detector parameters:**

1. From the Miscellaneous menu, press **[3]** to access the BUS Zone parameters menu options. The following display appears:

```
B-ZONE PRMS:
ZONE#=001    (M:ZZ)
```

2. Select the zone that the BUS zone detector was assigned to and press (#/Disarm)/ (#/6). The BUS Zone parameters menu appears.
3. Use the below tables to configure the parameters for each BUS Zone detector type.

Zones Miscellaneous: BUS Zone – iWISE DT Grade 2

Quick Keys	Parameter	Default	Range
2 0 3 ZZ 1	**LEDS**	On	

Defines the LEDS operation mode.
[1] Off - Disables the LEDS operation.
[2] On - Enables the LEDS operation.

Zones Miscellaneous: BUS Zone – iWISE DT Grade 2

Quick Keys	Parameter	Default	Range
2 0 3 ZZ 2	**MW (Microwave) Range**	Trimmer	

Defines the microwave channel range.
[1] Minimum [2] 25% [3] 50% [4] 65% [5] 85% [6] Maximum [7] Trimmer (MW is defined by the trimmer setting on the PCB)

2 0 3 ZZ 3	**ACT**	No	

Defines the Anti-Cloak™ Technology (ACT) operation mode.
[1] No - Disables the ACT mode.
[2] Yes - Enables the ACT mode.

2 0 3 ZZ 4	**Automatic Microwave Bypass**	No	

Defines whether the MW channel will be bypassed or not while the detector identifies trouble in the MW channel.
[1] No - While detecting a problem in the MW channel it is not bypassed. Alarm condition cannot be established until the MW channel is fixed.
[2] Yes - Switches the detector to operate only in PIR mode in case of MW trouble.

2 0 3 ZZ 5	**Green Line**	Yes	

A feature that follows environmental guidelines by avoiding surplus emission This feature defines the activation of the microwave channel while the system is disarmed.
[1] No - Green Line feature is disabled. MW is constantly activated.
[2] Yes - Green Line feature is activated.

2 0 3 ZZ 6	**Self Test**	Remote	

Used to test the detection technologies. In the event of a failed test, a Self Test Trouble is created

[1] Remote (Manual) - The remote self test is performed by the system when a user manually selects the Diagnostics option from the Maintenance menu via the ProSYS User Functions menu

[2] Local (automatic) - Once an hour, the detector automatically checks that the detector's channels are functioning properly.

Zones Miscellaneous: BUS Zone – Lunar Grade 3/iWISE DT Grade 3

Quick Keys	Parameter	Default	Range
2 0 3 ZZ 1	**LEDS**	On	

Defines the LEDS operation mode.
[1] Off - Disables the LEDS operation.
[2] On - Enables the LEDS operation.

2 0 3 ZZ 2	**MW (Microwave) Range**	Trimmer	

Defines the microwave channel range.
[1] Minimum [2] 25% [3] 50% [4] 65% [5] 85% [6] Maximum [7] Trimmer (MW is defined by the trimmer setting on the PCB)

Zones Miscellaneous: BUS Zone – Lunar Grade 3/iWISE DT Grade 3

Quick Keys	Parameter	Default	Range
2 0 3 ZZ 3	**ACT**	No	
	Defines the Anti-Cloak™ Technology (ACT) operation mode. [1] No - Disables the ACT mode. [2] Yes - Enables the ACT mode.		
2 0 3 ZZ 4	**Automatic Microwave Bypass**	No	
	Defines whether the MW channel will be bypassed or not while the detector identifies trouble in the MW channel. [1] No - While detecting a problem in the MW channel it is not bypassed. Alarm condition cannot be established until the MW channel is fixed. [2] Yes - Switches the detector to operate only in PIR mode in case of MW trouble.		
2 0 3 ZZ 5	**Green Line**	Yes	
	This option conforms to environmentally friendly standards by avoiding surplus emission This feature defines the activation of the microwave channel while the system is disarmed. [1] No - Green Line feature is disabled. MW is constantly activated. [2] Yes - Green Line feature is enabled.		
2 0 3 ZZ 6	**Anti-Mask**	Enable	
	Defines the operation of Anti Masking detection. [1] Disable [2] Enable and behaves according to the settings defined in quick keys [2][0][3][zz][7].		
2 0 3 ZZ 7	**Arm/Disarm**	No	
	Defines the operation of the anti masking detection while the detector is armed or disarmed. [1] No – While armed or disarmed, anti-mask behaves according to the setting defined in quick keys [2][0][3][zz][6] above. [2] Yes – While armed, anti-mask is disabled. When detector is disarmed Anti-mask behaves according to the settings defined in quick keys [2][0][3][zz][6].		
2 0 3 ZZ 8	**Self Test**	Remote	
	Used to test detection technologies. In the event of a failed test, a Self Test Trouble is created. [1] Remote (manual) - Performed by the system when a user manually selects the Diagnostics option from the Maintenance menu via the ProSYS User Functions menu. [2] Local (automatic) - Once an hour, the detector automatically checks that the detector's channels are functioning properly.		

Zones Miscellaneous: BUS Zone – iWISE QUAD Grade 2

Quick Keys	Parameter	Default	Range
2 0 3 ZZ 1	**LEDS**	On	
	Defines the LEDS operation mode. [1] Off - Disables the LEDS operation. [2] On – Enables the LEDS operation.		
2 0 3 ZZ 2	**Sensitivity**	High	
	Defines the sensitivity of the detector (PIR). [1] Low [2] High		
2 0 3 ZZ 3	**Self Test**	Remote	
	Used to test detection technologies. In the event of a failed test, a Self Test Trouble is created. [1] Remote (manual) - Performed by the system when a user manually selects the Diagnostics option from the Maintenance menu via the ProSYS User Functions menu. [2] Local (automatic) - Once an hour, the detector automatically checks that the detector's channels are functioning properly.		

Zones Miscellaneous: BUS Zone – iWISE QUAD Grade 3

Quick Keys	Parameter	Default	Range
2 0 3 ZZ 1	**LEDS**	On	
	Defines the LEDS operation mode. [1] Off - Disables the LEDS operation. [2] On – Enables the LEDS operation.		
2 0 3 ZZ 2	**Sensitivity**	High	
	Defines the sensitivity of the detector (PIR). [1] Low [2] High		
2 0 3 ZZ 3	**Anti-Mask**	Enable	
	Defines the operation of Anti Masking detection. [1] Disable [2] Enable and behaves according to the settings defined in quick keys [2][0][3][zz][4]		
2 0 3 ZZ 4	**Arm/Disarm**	No	
	Defines the operation of the anti masking detection while the detector is armed or disarmed [1] No – While armed or disarmed, anti-mask behaves according to the setting defined in quick keys [2][0][3][zz][3] above. [2] Yes – While armed, anti-mask is disabled. While detector is disarmed Anti-mask behaves according to the settings defined in quick keys [2][0][3][zz][3].		
2 0 3 ZZ 5	**Self Test**	Remote	
	Used to test detection technologies. In the event of a failed test, a Self Test Trouble is created. [1] Remote (manual) - Performed by the system when a user manually selects the Diagnostics option from the Maintenance menu via the ProSYS User Functions menu. [2] Local (automatic) - Once an hour, the detector automatically checks that the detector's channels are functioning properly.		

Zones Miscellaneous: BUS Zone – WatchOUT PIR

Quick Keys	Parameter	Default	Range
2 0 3 ZZ 1	**LEDS**	3 LEDS	

Defines the LEDS operation mode.
[1] Off - Disables the LEDS operation.
[2] Red Only - Only the Red LED will operate. This option is highly recommended to avoid the possibility that a burglar will "Learn" the detector behavior.
[3] 3 LEDS - All 3 LEDs will operate.

Quick Keys	Parameter	Default	Range
2 0 3 ZZ 2	**PIR Sensitivity**	Normal	

Defines the PIR sensitivity of the detector.
[1] Low [2] Medium [3] Normal [4] High

Quick Keys	Parameter	Default	Range
2 0 3 ZZ 3	**Lens Type**	Wide Angle	

Defines the actual Lens of the detector.
[1] Wide Angle [2] Barrier / Long Range

Quick Keys	Parameter	Default	Range
2 0 3 ZZ 4	**Auxiliary Relay Mode**	Off	

Defines the operation of the Auxiliary relay of the detector.
[1] Off - Auxiliary relay is disabled.
[2] 24 Hours - The auxiliary relay will always follow an alarm.
[3] Night Only - The auxiliary relay output will follow an alarm condition only during night time. The time defined by the photocell on the PCB.

Quick Keys	Parameter	Default	Range
2 0 3 ZZ 5	**Auxiliary Relay Time**	2.2 seconds	

Defines the time duration that the auxiliary relay is activated.
[1] 2.2 seconds [2] 2 minutes [3] 4 minutes [4] 8 minutes

Zones Miscellaneous: BUS Zone – WatchOUT DT

Quick Keys	Parameter	Default	Range
2 0 3 ZZ 1	**LEDS**	3 LEDS	

Defines the LEDS operation mode.
[1] Off - Disables the LEDS operation.
[2] Red Only - Only the Red LED will operate. This option is highly recommended to avoid the possibility that a burglar will "Learn" the detector behavior.
[3] 3 LEDS - All 3 LEDs will operate.

Quick Keys	Parameter	Default	Range
2 0 3 ZZ 2	**PIR Sensitivity**	Normal	

Defines the sensitivity of the detector (MW + PIR).
[1] Low [2] Medium [3] Normal [4] High

Quick Keys	Parameter	Default	Range
2 0 3 ZZ 3	**MW Range**	Trimmer	

Defines the microwave channel range (maximum range – 23m).
[1] Minimum [2] 20% [3] 40% [4] 60% [5] 80% [6] Maximum [7] Trimmer (MW is defined by the trimmer setting on the PCB)

Zones Miscellaneous: BUS Zone – WatchOUT DT

Quick Keys	Parameter	Default	Range
2 0 3 ZZ 4	**Alarm Logic**	PIR and Microwave	
	Determine the detector's logic of defining an alarm. [1] PIR and Microwave – An alarm is activated when both PIR and MW channels detect an alarm (AND Logic). [2] PIR or Microwave - An alarm is activated when either PIR or MW channels detect an alarm (OR Logic).		
2 0 3 ZZ 5	**Lens Type**	Wide Angle	
	Defines the actual Lens of the detector. [1] Wide Angle [2] Barrier / Long Range		
2 0 3 ZZ 6	**Anti-Mask**	Enable	
	Defines the operation of Anti Masking detection. [1] Disable [2] Enable		
2 0 3 ZZ 7	**Arm/Disarm**	No	
	Defines the operation of the LEDs and the anti masking detections while the detector is armed. 1) No – While armed, LEDS and anti-mask behave according to the settings defined in quick keys [2][0][3][zz][1] and [2][0][3][zz][6] above. 2) Yes – While armed, both LEDS and anti-mask are disabled.		
2 0 3 ZZ 8	**Prox Anti mask**	Enable	
	Defines the operation of proximity anti masking detection. [1] Disable [2] Enable		

Zones Miscellaneous: BUS Zone – WatchIN DT Grade 3

Quick Keys	Parameter	Default	Range
2 0 3 ZZ 1	**LEDS**	3 LEDS	
	Defines the LEDS operation mode. [1] Off - Disables the LEDS operation. [2] Red Only - Only the Red LED will operate. This option is highly recommended to avoid the possibility that a burglar will "Learn" the detector behavior. [3] 3 LEDS - All 3 LEDs will operate.		
2 0 3 ZZ 2	**Detection Sensitivity**	Normal	
	Defines the sensitivity of the detector (MW + PIR). [1] Low [2] Medium [3] Normal [4] ACT (Anti-Cloak™ Technology)		
2 0 3 ZZ 3	**MW Range**	Trimmer	
	Defines the microwave channel range (maximum range – 27m). [1] Minimum [2] 20% [3] 40% [4] 60% [5] 80% [6] Maximum [7] Trimmer (MW is defined by the trimmer setting on the PCB)		

Zones Miscellaneous: BUS Zone – WatchIN DT Grade 3

Quick Keys	Parameter	Default	Range
2 0 3 ZZ 4	**Alarm Logic**	PIR and Microwave	

Determine the detector's logic of defining an alarm.
[1] PIR and Microwave – An alarm is activated when both PIR and MW channels detect an alarm (AND Logic).
[2] PIR or Microwave - An alarm is activated when either PIR or MW channels detect an alarm (OR Logic).

Quick Keys	Parameter	Default	Range
2 0 3 ZZ 5	**Lens Type**	Wide Angle	

Defines the actual Lens of the detector.
[1] Wide Angle [2] Barrier/Long Range

Quick Keys	Parameter	Default	Range
2 0 3 ZZ 6	**IR Anti-Mask**	Enable	

Defines the operation of IR Anti Masking detection.
[1] Disable [2] Enable

Quick Keys	Parameter	Default	Range
2 0 3 ZZ 7	**Arm/Disarm**	No	

Defines the operation of the LEDs and the anti masking detections while the detector is armed.
[1] No – While armed, LEDS and anti-mask behave according to the settings defined in quick keys [2][0][3][zz][1] and [2][0][3][zz][6] above.

[2] Yes – While armed, both LEDS and anti-mask are disabled.

Quick Keys	Parameter	Default	Range
2 0 3 ZZ 8	**Green Line**	Yes	

This feature defines the activation of the microwave channel while the system is disarmed.
[1] No - Green Line feature is disabled. MW is constantly activated.
[2] Yes - Green Line feature is enabled. This option conforms to environmentally friendly standards by avoiding surplus emission.

Quick Keys	Parameter	Default	Range
2 0 3 ZZ 9	**Sway**	No	

This option allows the recognition and immunity of swaying objects in a known pattern.
[1] No - Sway is disabled.
[2] Yes - Sway is enabled.

[3] Utility Output

The Utility Output menu provides access to submenus and their related programming parameters that enable you to choose the event that will trigger a selected Utility Output, as well as the manner in which the output will be applied.

Adding one or more Utility Output expansion modules to the system makes an extensive list of switched output possibilities available.

After you access the Utility Output menu from the main Installer Programming menu, as described in this section, you can access the following submenus:

[3][0] **Nothing**, page 5-47

[3][1] **System**, page 5-48

[3][2] **Partition**, page 5-50

[3][3] **Zone**, page 5-53

[3][4] **Code**, page 5-54

➢ **To access the Utility Output menu:**

1. From the main Installer Programming menu, press **[3]**, or press the Status/ ? or Bypass/ → keys until you find the number **[3] Utility Output** option and then press #/Disarm/ #/6. The following display appears:

```
SELECT UO NUMBER
UO=01       (0:1)
```

2. Enter a two-digit number for the Utility Output that you want to program, using a leading zero for numbers between 1 and 9 (for example, **01**, **02**, and so on) and then press #/Disarm/ #/6. The following display appears:

```
UO=01 FOLLOWS:
0) NOTHING          ↓
```

You can now program the selected Utility Output. Use the information shown below. Each of the system's Utility Outputs is assigned to a single type of event relating to one of the following four major categories:

[1] System
[2] Partition
[3] Zone
[4] User Code

[3][0] Utility Output: Nothing

The Nothing option enables you to disable the selected utility output.

➢ **To access the Nothing option:**

1. Access the Utility Output menu and enter the appropriate two-digit number, as described on page 5-47.

```
UO=01 FOLLOWS:
0) NOTHING          ↓
```

2. Press (#/Disarm)/(#/6) to disable the selected utility output.

3 1 Utility Output: System

The System menu contains Utility Output parameters that follow the System Event.

➢ **To access the System menu:**

1. Access the Utility Output menu, as described on page 5-47.
2. From the Utility Output menu, press **[1]** to access the System menu options. The following display appears:

3. Press (#/Disarm)/(#/6). The following display appears:

4. Access and configure the parameters in the System menu, as follows:

Utility Output: System

Quick Keys	Parameter
3 1 01	**Bell Follow**
	Activates when a bell is triggered. If a bell delay was defined, the Utility Output will be activated after the delay period. (Refer to *Bell Delay*, page 5-3.)
3 1 02	**No Telephone Line**
	Activates in the following cases: 1. When a telephone line fault is detected. If a Phone Line Cut Delay time period is defined, the Utility Output will be activated after the delay time. (Refer to *Phone Line Cut Delay Time*, page 5-4.) 2. When the AGM module is connected to the ProSYS, the Line Fault output is activated when there is a loss of phone line simulation connection between the AGM Module and the ProSYS (meaning there is both AGM and PSTN loss). Deactivates after the telephone line fault has been corrected.
3 1 03	**Communication Failure**
	Activates when communication with the MS cannot be established. Deactivates after a successful call is established with the MS.
3 1 04	**Trouble Follow**
	Activates when a system trouble condition is detected.

Utility Output: System

Quick Keys	Parameter
3 1 05	**Ground Pulse**
	Activates when the ProSYS dialer dials out. This option is rarely used and is intended for older phone systems that require a "Ground Start" (a momentary connection between one side of the phone line and "earth") to obtain a dial tone. When the Utility Output is programmed (and properly wired) for this purpose, it provides the 2-3 pulses needed to furnish a dial tone to the dialer. If the **Ground Pulse** parameter is used, the *Pattern of Operation* options, page 5-54, **do not** apply.
3 1 06	**Low Battery Follow**
	Activates when the ProSYS rechargeable standby battery has insufficient reserve capacity and the voltage decreases to 11.5V.
3 1 07	**AC Loss Follow**
	Activates when the source of the Main Panel's AC power is interrupted. This activation will follow the delay time defined in the system control times and the **AC Off Delay Time** parameter (refer to page 5-4).
3 1 08	**Sensors Test**
	Relates to the ProSYS Zone Self-Test (Quick Keys **[2][9][8]**) described on page 5-35. This option is selected if the designated Utility Output is part of the circuit providing switched power for the source of noise (or vibration) used in the Sensors Test procedure.
3 1 09	**Voice Module**
	When a Follow-Me number is dialed due to an alarm, this Utility Output activates the Voice module (RP200VC), which plays a pre-programmed message repeatedly. The Utility Output deactivates after the Follow-Me period is completed.
3 1 10	**Battery Test**
	A pulsed Utility Output will follow the Battery Test only once a day at 9:00 AM. The pulse interval is 10 seconds. This parameter is usually used to perform an overload test on the system by using an external device.
3 1 11	**Bell Burglary**
	Activates the Utility Output after any bell burglary alarm in any partition in the system.
3 1 12	**Scheduler**
	The Utility Output will follow the predefined time programming that is defined in the scheduler of the weekly programs for Utility Output activation. For additional details, refer to the *ProSYS User's Manual*.

Utility Output: System

Quick Keys	Parameter
3 1 13	**Digital Key Reader Communication** This Utility Output is activated when there is a BUS communication problem with the Proximity Key Reader. The pattern of the operation is Pulsed, and the default is **01** second for the pulse duration. The Utility Output will be activated for 5 consecutive times between the time that the Main Panel identifies a communication problem with the Digital Key Reader and the time it sends a restore event.
3 1 14	**Switch AUX** Activates the Utility Output when a fire zone is activated (for fire detection) according to the time defined in *Double Verification of Fire Alarms*, page 5-6. This Utility Output will not have the option to choose pulse or latch in the Pattern of Operation. The pulse time is defined in *Switched Auxiliary Break*, page 5-3.
3 1 15	**GSM Error** Relates to GSM/GPRS module. Activates the utility output in the following cases: ♦ There is no SIM card in the GSM/GPRS BUS Module or SIM is faulty ♦ GSM RSSI signal level is low ♦ GSM network fault
3 1 16	**GSM: PSTN Loss** Relates to GSM/GPRS module. Activates following a loss of PSTN line (connected to the GSM). **NOTE:** This parameter is relevant only for GSM/GPRS full version module.
3 1 17	**GSM Low Battery** Relates to GSM/GPRS module. Activates the utility output when the GSM back up battery voltage drops below 11VDC.

5. Press (#/Disarm)/(#/6) and proceed to *Pattern of Operation*, page 5-54, to set the pattern and duration of operation.

3 2 Utility Output: Partition

The Partition menu contains Utility Output parameters that follow the Partition Event. The Utility Output can follow any partition(s) combination.

➢ **To access the Partition menu:**

1. Access the Utility Output menu, as described on page 5-47.
2. From the Utility Output menu, press **[2]**. The following display appears:

```
UO=01 FOLLOWS:
2)PARTITION
```

3. Press (#/Disarm)/(#/6) to access the Partition menu options. The following display appears:

4. Select the partition event to be followed from those listed below, using the Status/ ? or Bypass/ → keys to move the cursor left or right, respectively.

Utility Output: Partition

Quick Keys	Parameter
3 2 01	**Ready Follow**
	Activates the Utility Output when all the selected partition(s) are in the READY state.
3 2 02	**Alarm Follow**
	Activates the Utility Output when an alarm occurs in the selected partition(s).
3 2 03	**Arm Follow**
	Activates the Utility Output when the selected partition(s) is armed in either the AWAY or STAY mode. The Utility Output will be activated immediately, regardless of the Exit Delay time period.
3 2 04	**Burglary Follow**
	Activates the Utility Output when a BURGLARY (intrusion) alarm occurs in the selected partition(s).
3 2 05	**Fire Follow**
	Activates the Utility Output when a FIRE alarm is triggered in the selected partition(s) or when alarm keys **[4]** and **[5] (FIRE)** are pressed simultaneously.
3 2 06	**Panic Follow**
	Activates the Utility Output when a PANIC alarm is triggered in the selected partition(s) or when alarm keys **[1]** and **[2] (PANIC)** are pressed simultaneously.
3 2 07	**Special Emergency Follow**
	Activates the Utility Output when an AUXILIARY EMERGENCY alarm is triggered in the selected partition(s) or when alarm keys **[7]** and **[8]** are pressed simultaneously.
3 2 08	**Duress Follow**
	Activates the Utility Output when a DURESS alarm is initiated at the keypad related to the selected partition(s). To deactivate this Utility Output in a latch pattern, refer to the User menu option **Duress Reset** (**[2][9][3]**) (described in the *ProSYS User's Manual*).
3 2 09	**Buzzer Follow**
	Activates the Utility Output when a keypad in the selected partition(s) sounds its BUZZER during Auto Arming, Exit/Entry Delays, and alarm conditions.
3 2 10	**Chime Follow**
	Activates the Utility Output when a keypad in the selected partition(s) sounds its CHIME.

Utility Output: Partition

Quick Keys	Parameter
3 2 11	**Exit/Entry Follow** Activates the Utility Output when the selected partition(s) initiates an Exit/Entry Delay period.
3 2 12	**Fire Trouble Follow** Activates the Utility Output when a FIRE TROUBLE is detected in the selected partition(s).
3 2 13	**Day (Zone) Trouble** Activates the Utility Output when a DAY ZONE TROUBLE is detected in the selected partition(s).
3 2 14	**General Trouble Follow** Activates the Utility Output when a TROUBLE condition is detected in the selected partition.
3 2 15	**Stay Follow** Activates the Utility Output when the selected partition(s) is armed in STAY mode.
3 2 16	**Tamper Follow** Activates the Utility Output when a Tamper occurs in the selected partition(s) and follows any type of tamper.
3 2 17	**Disarm Follow** Activates the Utility Output when the selected partition(s) is disarmed.
3 2 18	**Bell Follow** Activates the Utility Output when one of the defined partitions is in ALARM mode and the bell is triggered. This enables the connection of different sirens to different partitions.
3 2 19	**Bell Stay Off** This parameter causes the Utility Output to function as follows: ♦ In AWAY ARMING mode, the Utility Output will follow the bell activation in the defined partitions. ♦ In STAY ARMING mode, the Utility Output will not be activated. **NOTE:** If an alarm occurs in a zone that shares more than one partition and one of the partitions is in ARM mode (while the other is in STAY mode), the Utility Output will be activated, as described above. ♦ In STAY mode, a 24-hour zone will not activate this Utility Output.
3 2 20	**Zone Bypass** Activates the Utility Output when the relevant partitions are in ARM or STAY mode and any zone in the relevant partitions is bypassed.
3 2 21	**Automatic Arm Alarm** Automatically activates an alarm when an event occurs.

Utility Output: Partition

Quick Keys	Parameter
3 2 22	**Zone Loss Alarm**
	An alarm is activated when a wireless zone is lost.

5. Press (Disarm)/ (#/6). The following display appears:

```
P=12345678 UO=XX
  Y.......
```

NOTE:
The **XX** in the **UO=XX** refers to the number of the Utility Output currently being programmed.

6. Use the (Stay)/ (0) key to toggle between **[Y] YES** and **[N] NO** to designate the partition(s) that will activate the selected **Utility Output (UO)**,

   -OR-

   Press the partition number **[1 to 8]** to select or deselect it.

7. Press (Disarm)/ (#/6) and proceed to *Pattern of Operation*, page 5-54, to set the pattern and duration of operation.

3 3 Utility Output: Zone

The Zone menu contains Utility Output parameters that follow the Zone Event. Each Utility Output can be activated by a group of up to five zones.

➢ **To access the Zone menu:**

1. Access the Utility Output menu, as described on page 5-47.
2. From the Utility Output menu, press **[3]**. The following display appears:

```
UO=01 FOLLOWS:
3)ZONE
```

3. Press (Disarm)/ (#/6) to access the Zone menu options. The following display appears:

```
ZONE EVENT:UO=01
1)ZONE FOLLOW
```

4. Select the zone event type to be followed from the following list:

Utility Output: Zone

Quick Keys	Parameter
3 3 1	**Zone Follow**
	Activates the Utility Output when the selected zone is tripped.
	The tripped zone need not be armed to trigger the Utility Output.
3 3 2	**Alarm Follow**
	Activates the Utility Output when the selected zone causes an alarm.
3 3 3	**Arm Follow**
	Activates the Utility Output when the selected zone is armed by the system.

Utility Output: Zone	
Quick Keys	**Parameter**
3 3 4	**Disarm Follow**
	Activates the Utility Output when the selected zones are disarmed.

5. Press (#/Disarm)/(#/6). The following display appears:

```
ZONES FOR UO=01
ZONE: 00 1ST
```

6. Enter the zone numbers in the group and press (#/Disarm)/(#/6) after each one. For each Utility Output, you can define a group of up to five zones.

NOTE:
If you choose a zone number that is not in the system, a broken line is displayed (**---**).

7. Press (#/Disarm)/(#/6) and proceed to *Pattern of Operation*, page 5-54, to set the pattern and duration of operation.

3 4 Utility Output: User Code

The Code menu parameters enable you to program the activation of the selected Utility Output when the user chooses the User Functions menu (selects ACTIVITIES/UTIL OUTPUT, enters an authorized User Code and presses press (#/Disarm)/(#/6)). The Installer designates the User Code(s) for triggering the selected UO.

Refer to the *ProSYS User's Manual* for additional details about triggering Utility Output(s) via User Codes.

NOTE:
The Utility Output will be activated by entering a User Code **only** if the **Quick UO** parameter under System Control is defined as **Disabled**. When the **Quick UO** is defined as **Enabled**, no User Code is required.

➢ **To access the Code menu:**

1. Access the Utility Output menu, as described on page 5-47.
2. From the Utility Output menu, press **[4]**. The following display appears:

```
UO=01 FOLLOWS:
4)CODE
```

3. Press (#/Disarm)/(#/6) to access the Code menu options. The following display appears:

```
CODES FOR UO=01:
00)GRAND      N
```

4. Use the (Status)/(?) or (Bypass)/(→) keys to select from any of the 99 available User Codes.
5. Use the (Stay)/(0) key to toggle between **[Y] YES** or **[N] NO** for each user chosen to trip the designated Utility Output.
6. Press (#/Disarm)/(#/6) and proceed to the following *Pattern of Operation* submenu to set the pattern and duration of operation:

Utility Output: Pattern of Operation

Quick Keys	Parameter	Default	Range
3 4 1	**Pulse N/C**	05 seconds	01-90 seconds

The Utility Output is always Activated (N/C) before it is triggered (pulled down to negative).

When triggered, it deactivates for the Pulse Duration specified below and then reactivates automatically.

1. Press **[1]** and then press #/Disarm / #/6.
2. Choose the desired Pulse Duration, between 01-90 seconds.
3. Press #/Disarm / #/6 and set the activation by choosing **ALL** or **ANY**.
4. Press #/Disarm / #/6 and select a label for the UO (refer to the note below).

Quick Keys	Parameter
3 4 2	**Latch N/C**

The Utility Output is always Activated (N/C) before it is triggered (pulled down to negative).

When triggered, it deactivates and remains deactivated (latched) until the operation is restored.

1. Press **[2]** and then press #/Disarm / #/6.
2. Choose a label for the UO (refer to the note below).
3. Press #/Disarm / #/6 to set the activation by choosing **ALL** or **ANY**.
4. Press #/Disarm / #/6 and set the deactivation by choosing **ALL** or **ANY**.
5. Press #/Disarm / #/6 and choose a label.

Quick Keys	Parameter	Default	Range
3 4 3	**Pulse N/O**	05 seconds	01-90 seconds

The Utility Output is always Deactivated (N/O) before it is triggered (pulled up).

When triggered, it activates (pulled down) for the Pulse Duration specified below, then deactivates automatically.

1. Press **[3]** and then press #/Disarm / #/6.
2. Choose the desired Pulse Duration, between 01-90 seconds
3. Press #/Disarm / #/6.
4. Select a label for the UO (refer to the note below).

Quick Keys	Parameter
3 4 4	**Latch N/O**

The Utility Output is always Deactivated (N/O) before it is triggered (pulled up).

When triggered, it activates (pulled down) and remains activated (latched) until the operation is restored.

1. Press **[4]** and then press #/Disarm / #/6.
2. Choose a label for the UO (refer to the note below).

NOTE:
You can create and/or edit a 10-character label description for each Utility Output. Refer to *Entering a New Label Using the LCD Keypad*, page 5-13, for additional details.

Activation/Deactivation

When the Utility Output is following more than one Partition or Zone, the Installer can choose the logic of the Utility Output activation or deactivation, as follows:

- If the Pattern of Operation is defined as **Latch N/O** or **Latch N/C**, the Installer can choose the **activation and deactivation** logic of the UO to follow either after **all** the Partitions/Zones or after **any** of the Partitions/Zones.
- If the Pattern of Operation is defined as **Pulse N/O** or **Pulse N/C**, the Installer can choose **only** the **activation** logic of the Utility Output to follow either after **all** the Partitions/Zones or after **any** of the Partitions/Zones. The deactivation operation follows the defined time period.

4 Code Maintenance

The Code Maintenance menu provides access to submenus and their related parameters that enable you to maintain the User Codes in the system.

In addition, the ProSYS contains the following special codes:

- **Grand Master Code:** Used by the system's owner or chief user.
- **Installer Code:** Used by the ProSYS installation company technician to program the Main Panel. The default Installer Code depends on the ProSYS model, as follows:
  - **ProSYS 128:** [0][1][2][8]
  - **ProSYS 40:** [0][1][4][0]
  - **ProSYS 16:** [0][1][1][6]
- **Sub-Installer Code:** Used by a technician sent by the ProSYS installation company to carry out restricted tasks defined at the time of system installation by the installation technician. The Sub-Installer can access with his code only those programming menus predefined for his access.

This section describes how to perform the following:

- Determine the Authority Level of each User Code
- Assign partition(s) to a specific code
- Change the Grand Master, Installer, and Sub-Installer Codes
- Upgrade the security level to a 6-digit code

After you access the Code Maintenance menu from the main Installer Programming menu, as described in this section, you can access the following submenus:

4 1 **Authority**, page 5-58

4 2 **Partition**, page 5-59

4 3 **Grand Master**, page 5-60

4 4 **Installer**, page 5-60

4 5 **Sub-Installer**, page 5-61

4 6 **Code Length**, page 5-62

➢ **To access the Code Maintenance menu:**

- From the main Installer Programming menu, press **[4]**, or press the Status/ ? or Bypass/ → keys until you find the number **[4] Code Maint.** option and then press #/Disarm/ #/6. The first submenu (AUTHORITY) appears:

```
SUBJ: CODE MAINT.
1)AUTHORITY
```

You are now in the Code Maintenence menu and can access the required submenus, as described in the following sections.

[4] [1] Code Maintenance: Authority

Default: User

The Authority menu enables you assign the Authority Level of each User Code. There are seven Authority Levels to match the needs of various users, as described in *Authority Levels*, below.

➢ **To access the Authority menu:**

1. Access the Code Maintenance menu, as described on page 5-57.
2. From the Code Maintenance menu, press **[1]** to access the Authority menu. The following display appears:

```
CODE AUTHORITY.
CODE=01:USER
```

3. Use the Status/ ? or Bypass/ → keys to determine whether to change the code number (from 01 to 98) or the Authority Level.
4. Use the Stay/ 🔒 key to toggle between the Authority Levels, as described in *Authority Levels*, page 5-58.
5. Press #/Disarm/ #/6 to confirm and move to the next code.
6. Press the * key to return to the previous level.

Authority Levels

The Authority menu contains options for the following Authority Levels:

- **Grand Master**: There can be only one Grand Master in the system, and the Grand Master can perform all the available user functions.
  The Grand Master code is designated as Code 00.

NOTE:

The Installer can define that the Grand Master has the ability to change the authority level and allowed partitions for users. Refer to Grand Master Authority/Partition (Quick Keys [1] [2] [29]), page 5-10.

- **Manager**: There can be only one Manager Code in the system. The Manager Code is designated only as Code 01. The Manager can change all User Codes except that of the Grand Master. The Manager has access to all of the function listed above, apart from the following:
  - Changing the Grand Master Code
  - Performing Walk Testing
- **Master**: There are no restrictions in the number of Master Codes (as long as they do not exceed the number of codes remaining in the system). The Master has access to all the Manager's privileges, with the following restrictions:
  - Restricted to assigning and changing User Codes belonging to those with Authority Levels of Master and below (User, Arm Only, and Maid)
  - Restricted access to designated partitions
- **User**: There are no restrictions in the number of User Codes (as long as they do not exceed the number of codes remaining in the system). The User has access to the following:
  - Arming and disarming
  - Bypassing zones
  - Accessing designated partitions
  - Viewing system status, trouble, and alarm memory
  - Resetting the Switched Auxiliary Output

- Activating designated Utility Outputs
- Changing his/her own User Code
- Controlling uploading/downloading activities
- Administering selected system tests, except Walk Testing

- **Arm Only**: There are no restrictions in the number of Arm Only Codes (as long as they don't exceed the number of codes remaining in the system). Arm Only Codes are useful for workers who arrive when the premises are already open, but because they are last to leave, they're given the responsibility to close the premises and arm the system. The users with Arm Only Codes have access for arming one or more partitions.
- **Maid**: The Maid Code is a temporary code, which is to be immediately deleted from the system as soon as it is used to arm. This code is typically used for maids, home attendants, and repairmen who must enter the premises before the owner(s) arrive. These codes are used as follows:
  - For one-time arming in one or more partitions
  - If first used to disarm the system, the Maid Code may be used once for subsequent arming
- **UO Only**: Typically used to enable the operation of a device controlled by a Utility Output (meaning a door and so on). These codes are used only to operate a Utility Output.
- **User Unbypass**: This user has access to all the User's privileges apart from bypassing zones.
- **Guard**: This user can only disarm the system. After entering the Guard code, the system will be disarmed for the predefined time period (refer Guard, page 5-5).

[4] [2] Code Maintenance: Partition

Default: Partition 1

The Partition menu enables you to assign the partition(s) in which all User Codes (except for the Grand Master) will operate. The number of partitions and users that can be assigned depends on your ProSYS model (refer to the *Feature-Specific Limitations* table in *Chapter 1, Introducing ProSYS*).

➢ **To access the Partition menu:**

1. Access the Code Maintenance menu, as described on page 5-57.
2. From the Code Maintenance menu, press **[2]** to access the Partition menu. The following display appears:

```
CODE PARTITION
CODE=01
```

3. Use the Status/ ? or Bypass/ → keys to position the cursor under the first digit of the User Code to which you want to assign access to one or more partition(s).
4. Enter the appropriate two-digit User Code and press #/Disarm/ #/6. The following display appears:

```
P=12345678 C=XX
  Y.......
```

5. Designate the partition(s) for which the designated user can have access by using the **[1 to 8]** keys.

NOTE:
The "non-partitioned" system is assumed to be using Partition 1.

6. Press #/Disarm/ #/6 to access another User Code.
7. Repeat steps 2 to 6, as required, until all User Codes used in the system are assigned to the appropriate partition(s).

8. When you have completed the process, press the (*) key to return to the previous level.

[4][3] Code Maintenance: Grand Master

Default: 1234

The Grand Master menu enables the owner or chief user to set the Grand Master Code.

NOTE:

The Grand Master code can also be changed in the User menu (by the Grand Master).

The Grand Master is the highest Authority Level. Refer to *Authority Levels*, page 5-58, for additional details about other authority levels.

➢ **To access the Grand Master menu:**

1. Access the Code Maintenance menu, as described on page 5-57.
2. From the Code Maintenance menu, press **[3]** to access the Grand Master menu. The following display appears:

```
GRAND MASTER
    ****
```

3. Enter a Grand Master Code using the keypad's **[0 to 9]** keys and then press (# Disarm)/ (#/6).
4. Press the (*) key to return to the previous level.

NOTE:

The Grand Master, the Installer and the Sub-Installer can enter and change other level codes, but they cannot see the code. The message [****] is displayed instead of the code.

[4][4] Code Maintenance: Installer

Default: 0128

The Installer Code provides access to the Installer Programming menu, allowing modification of all system parameters. The default Installer Code depends on the ProSYS model, as follows:

- **ProSYS 128:** [0][1][2][8]
- **ProSYS 40:** [0][1][4][0]
- **ProSYS 16:** [0][1][1][6]

RISCO Group recommends changing the factory default to a new code unique to the Main Panel and/or to the MS personnel, as described in the procedure below.

➢ **To access the Installer menu:**

1. Access the Code Maintenance menu, as described on page 5-57.
2. From the Code Maintenance menu, press **[4]** to access the Installer menu. The following display appears:

```
INSTALLER CODE:
CODE: 0128
```

3. Enter the new code, using the keypad's **[0 to 9]** keys.
4. Use the (Status)/ (?) or (Bypass)/ (→) keys to overwrite the default and press (# Disarm)/ (#/6).
5. Confirm your selection by re-entering the same code and pressing (# Disarm)/ (#/6).

6. Press the * key to return to the previous level.

[4] [5] Code Maintenance: Sub-Installer

Default: 0228

The Sub-Installer Code allows limited access to selected parameters from the Installer Programming menu. The default Sub-Installer Code depends on the ProSYS model, as follows:

- **ProSYS 128:** [0][2][2][8]
- **ProSYS 40:** [0][2][4][0]
- **ProSYS 16:** [0][2][1][6]

We recommend changing the factory default to a code unique to the Main Panel and/or to those who may serve as sub-installers in your MS, as described in the following procedure. The limitations of the Sub Installer are as follows:

- **System menu**: Cannot define the Default Enable / Disable parameter.
- **Code Maintenance menu**: Cannot change the Installer code.
- **Dialer Menu**: Cannot change the MS telephone numbers, Account numbers, Communication format and Access and ID parameters. In the Controls sub menu he cannot change the MS Enable and UD Enable parameters. In the Parameters sub menu he can define only the FM Retries. In the Report Split sub menu he can define only the Follow Me section.
- **Reported Codes menu**: Cannot define any reported codes parameters.

➢ **To access the Sub-Installer menu:**

1. Access the Code Maintenance menu, as described on page 5-57.
2. From the Code Maintenance menu, press **[5]** to access the Sub-Installer menu. The following display appears:

```
SUB-INST CODE:
CODE: 0228
```

3. Type in the new code using the keypad's **[0 to 9]** keys.
4. Use the Status/ ? or Bypass/ → keys to overwrite the default and press #Disarm/ #/6.
5. Press the * key to return to the previous level.

Using the Sub-Installer's Code

This section describes how to enable a sub-installer to have limited access to the Installer Programming menu options.

➢ **To use the Sub-Installer's code:**

1. Exit the Installer Programming mode by pressing the * key until the display no longer changes.
2. Press **[0]**. The **DO YOU WANT TO SAVE THE DATA?** message appears.
3. Use the Stay/ 0 key to toggle between **[Y] YES** and **[N] NO** to determine whether you want to save any programmed data and press #Disarm/ #/6.
4. From the normal (user's) display, enter the SELECTED mode by pressing * **[7] [2]**.
5. Enter the Sub-Installer's Code and press #Disarm/ #/6. The Sub-Installer now has limited access to Installer programming parameters.

[4] [6] Code Maintenance: Code Length

Default: 4 digits

The Code Length specifies the number of digits (either 4 or 6) for the Grand Master, Manager, and Master Codes. All the other codes (User, Arm Only and Maid) use from one digit up to a maximum of six digits.

➢ **To access and program the Code Length menu parameters:**

1. Access the Code Maintenance menu, as described on page 5-57.
2. From the Code Maintenance menu, press **[6]** to access the Code Length menu. The following display appears:

```
CODE LENGTH:
1)4 DIGITS
```

3. Press (#/Disarm)/(#/🔓).
4. Access and program the parameters in the Code Length menu, as follows:

Code Maintenance: Code Length

Quick Keys	Parameter
[4] [6] [1]	**4 Digits**
	Displays the 4-digit codes. 1. Use the (Status)/(?) or (Bypass)/(→) keys to display the 4-digit codes. 2. Press (#/Disarm)/(#/🔓). When you make a change in the Code Length, the following display appears: `CODES SHOULD BE DELETED. SURE? N` 3. Use the (Stay)/(🔒) key to change the default **[N]**. 4. Press (#/Disarm)/(#/🔓).
[4] [6] [2]	**6 Digits**
	Displays the 6-digit codes. 1. Use the (Status)/(?) or (Bypass)/(→) keys to display the 6-digit codes. 2. Press (#/Disarm)/(#/🔓). When you make a change in the Code Length, the following display appears: `CODES SHOULD BE DELETED. SURE? N` 3. Use the (Stay)/(🔒) key to change the default **[N]**. 4. Press (#/Disarm)/(#/🔓).

Code Maintenance: Code Length

Quick Keys	Parameter

NOTES:

When you change the **Code Length** parameter, all User Codes are deleted and must be re-programmed or downloaded.

For a 6-digit Code Length system, 4-digit default codes like **1-2-3-4** (Grand Master), **0-1-2-8** (Installer), and **0-2-2-8** (Sub-Installer) become **1-2-3-4-0-0**, **0-1-2-8-0-0**, and **0-2-2-8-0-0**, respectively.

If you change the **Code Length** back to 4 digits, the system codes are restored to the default 4-digit codes.

[5] Dialer

The Dialer menu provides access to submenus and their related parameters that enable ProSYS to establish communication with the MS and transmit data.

After you access the Dialer menu from the main Installer Programming menu, as described in this section, you can access the following submenus:

[5] [1] **Link-Up**, page 5-64

[5] [2] **Customer Account Numbers**, page 5-67

[5] [3] **Communication Format**, page 5-68

[5] [4] **Access and ID**, page 5-71

[5] [5] **Controls**, page 5-72

[5] [6] **Parameters**, page 5-75

[5] [7] **Report Split**, page 5-77

[5] [8] **Alarm Restore**, page 5-83

[5] [9] **Periodic Test**, page 5-84

[5] [0] **More**, page 5-85

➢ **To access the Dialer menu:**

- From the main Installer Programming menu, press **[5]**, or press the (Status)/(?) or (Bypass)/(→) keys until you find the number **[5] Dialer** option and then press (# Disarm)/(#/6). The first submenu (TEL. NUMBERS) appears:

```
SUBJ:DIALER
1)TEL.NUMBERS ↓
```

You are now in the Dialer menu and can access the required submenus, as described in the following sections.

[5] [1] Dialer: Link-Up

The Link-Up menu contains parameters that enable the ProSYS to store data that defines the connectivity for:

- MS(s) to which the ProSYS sends reports.
- The call-back telephone numbers used to call back the MS's computer when the Upload/Download callback function is in operation.

➢ **To access the Link-Up menu:**

1. Access the Dialer menu, as described on page 5-64.
2. From the Dialer menu, press **[1]** to access the Link-Up menu options. The following display appears:

```
DIALER:
1) LINK-UP ↓
```

3. Access and configure the parameters in the Link-Up menu, as follows:

Dialer: Link Up

Quick Keys	Parameter	Range
5 1 1	**MS Link-Up**	
	The ProSYS enables to report events to the MS receiver in four connectivity (link-ups) options, depending on the communication options at the MS site: 1. Voice channel (land line or GSM): Up to 32 alphanumeric characters 2. TCP/IP (using the ACM) 3. SMS (using the GSM/GPRS module) 4. GPRS (using the GSM/GPRS module)	
5 1 1 1	**MS 1 Link-Up**	
	Defines the connection parameters used for the first MS. The ProSYS supports three MS links (Quick key [5][1][1][1] to [5][1][1][3]).	
5 1 1 1 1	**PSTN / Voice**	
	The ProSYS will report the MS over the voice channel (PSTN or GSM). Type in up to 32 digits of the MS phone. Include dialing prefixes and area code or special letters. If required, you can include the following special functions in the phone number to achieve the effect listed in the table. (Press the Stay / 0 or Arm / 0 keys to toggle to the required character.)	

Function	Sequence	Results
Stop dialing and wait for a new dial tone.	[∗] [1]	A
Wait a fixed period before continuing.	[∗] [2]	B
Switch from *Pulse* to *Tone* (or from *Tone* to *Pulse*).	[∗] [3]	C
Enter hyphen	[∗] [5]	-
Send the DTMF ∗ character.	[∗] [7]	∗
Enter space	[∗] [8]	
Send the DTMF # character.	[∗] [9]	#
Delete numbers from the cursor position.	[∗] [0]	Delete numbers

When you have completed your entry, press **[#]** to store it.

NOTE:

When entering special letters, you must press and hold the * key and then press the required number at the same time without releasing the * key. To enter the next special letter, you must release the * key and then repeat the procedure for the next special letter.
To delete a number move the cursor under the character and press [*][0]

Dialer: Link Up

Quick Keys	Parameter	Range

5 1 1 1 2 IP

The ProSYS will report the MS over TCP/IP network using the Advanced Communication Module (ACM).

1. Type in the IP address that identifies the MS receiver on the network.
2. Press (#/Disarm)/(#/6) and type in the MS Port address of the receiver on the network.

5 1 1 1 3 SMS

The ProSYS will report the MS via SMS using the GSM/GPRS module. Type in up to 32 digits of the MS phone number with prefix included.

NOTE:
RISCO Group's IP/GSM receiver has to be used at the MS side.

5 1 1 1 4 GPRS

The ProSYS will report the MS via the GPRS network using the GSM/GPRS module.

1. Type in the IP address that identifies the MS receiver on the network. (Default: 000.000.000.000)
2. Press (#/Disarm)/(#/6) and type in the MS Port address of the receiver on the network. (Default: 00000)

NOTES:
To enable GPRS communication, the GPRS channel should be defined by your local provider.
Remember to define the GPRS parameters using quick key [8][3][1][5]
RISCO Group's IP receiver has to be used at the MS side.

5 1 1 2 MS 2 Link-Up

MS 2 Link Up. The programming sequence of MS 2 is identical to the MS 1 sequence.

5 1 1 3 MS 3 Link-Up

MS 3 Link Up. The programming sequence of MS 2 is identical to the MS 1 sequence.

5 1 2 U/D Phones

The phone numbers to which the MS's computer, equipped with the Upload/Download software, is connected. These phones will be used for the Call back feature. Up to 2 phone numbers can be defined. If required, you can include the special functions as described in PSTN/Voice definition, page 5-65.

Two types of connections, using two different phone numbers are available:

- Using the regular phone line (PSTN)
- Using the GSM channel

NOTES:
1. Remote UD can be done through the TCP / IP network using the ACM module. For additional information refer to the ACM installation manual.
2. Remote Upload/Download can be performed using the GSM data channel at 9600 bps, using the GSM/GPRS module. For additional information refer to the GSM/GPRS installation manual.

Dialer: Link Up		
Quick Keys	**Parameter**	**Range**
5 1 2 1	**U/D Phone 1**	Up to 32 alphanumeric characters
	Type in up to 32 digits followed by (#/Disarm)/ (#/6). Include dialing prefixes and area code or special letters.	
5 1 2 2	**U/D Phone 2**	Up to 32 alphanumeric characters
	The second number for the U/D software	

Special Letters

When entering special letters, you must press and hold the (*) key and then press the required number at the same time without releasing the (*) key. To enter the next special letter, you must release the (*) key and then repeat the procedure for the next special letter.

A [Press: * + 1]: Stop dialing and wait for a new dial tone.

B [Press * + 2]: Stop dialing and wait for a fixed period.

C [Press * + 3]: Switch DTMF to pulse dialing.

- [Press: * + 5]: Enter hyphen.

*** [Press: * + 7]:** Sends *.

 # [Press: * + 9]: Sends **#**.

[Press: * + 8]: Enter space.

[Press: * + 0]: Delete a character. Move the cursor under the character and delete.

5 2 Dialer: Customer Account Numbers

The Customer Account Numbers menu enables you to enter account numbers for each partition. These account numbers are the 6-digit Customer Account Numbers assigned by the MS. The available account numbers depend on your installed model, as follows:

- **ProSYS 16:** The accounts are assigned automatically one account to one of the partitions.
- **ProSYS 40:** The first 2 partitions will have 3 accounts for each partition. Each of the accounts in the same partition is assigned sequentially to each of the MS telephone numbers. The other 2 partitions will have only one account for each partition.
- **ProSYS 128:** The first 2 partitions will have 3 accounts for each partition. Each of the accounts in the same partition is assigned sequentially to each of the MS telephone numbers. The other 6 partitions will have only one account for each partition.

Refer also to the *Feature-Specific Limitations* table in *Chapter 1, Introducing ProSYS*.

➢ **To access the Customer Account Numbers menu:**

1. Access the Dialer menu, as described on page 5-64.
2. From the Dialer menu, press **[2]** to access the Customer Account Numbers menu. The following display appears:

```
CUST. ACCOUNTS:
1) PARTITION1
```

3. Use the Status/ ? or Bypass/ → keys to select a partition and press #/Disarm/ #/6. If you select partition 1 or 2 in the ProSYS 40 or ProSYS 128,the following display appears:

```
ACCOUNT P:1
1) FOR MS TEL 1
```

4. Select the MS telephone number (up to three available numbers) and press #/Disarm/ #/6. The following display appears:

```
ACCOUNT P:X PH=X
CODE:001111
```

NOTE:
This display also appears if you selected partitions 3-8 in step 3.

5. Define a different account number for each MS telephone number.

NOTE:
For partitions 3-8, the same account number will be sent to all three MS telephone numbers.

6. Use the Status/ ? or Bypass/ → keys and the numeric **[0 to 9]** keys to enter an account number and then press #/Disarm/ #/6. The following display appears:

```
APPLY ACCNT P:1
001111 TO ALL?  N
```

7. Select **[Y] YES** to apply the same account number to all the MS telephone numbers to the designated partition,
   -OR-
   Select **[N] NO** to assign a different account number to each MS telephone number.
8. Repeat steps 3 to 7 to assign account numbers to additional partitions.
9. Press #/Disarm/ #/6 followed by the * key to return to the previous level.

5 3 Dialer: Communication Format

The Communication Format menu contains parameters that enable the ProSYS to contact the MS in order to obtain details of the communication protocol used by the digital receiver for each account.

The corresponding format codes are listed in the right-hand column in the *Monitoring Station (MS) Communication Formats* table on page 5-70.

➢ **To access the Communication Format menu:**

1. Access the Dialer menu, as described on page 5-64.
2. From the Dialer menu, press **[3]** to access the Communication Format menu options. The following display appears:

```
COMM FORMAT:
1)FOR 1ST TEL.  ↓
```

3. Use the Status/ ? or Bypass/ → keys and press #/Disarm/ #/6,
   -OR-
   Enter the numbers [**1**,**2**, or **3**] of the MS to be programmed. The following display appears:

```
FOR 2 NO TEL.:
FORMAT: 0000
```

4. Use the **[0 to 9]** keys to assign the format code (for example, **0420** ADEMCO Contact ID format.
5. Press (#/Disarm)/(#/6).
6. Press (#/Disarm)/(#/6) again followed by the (*) key to return to the previous level.

NOTE:

For SIA and Contact ID formats, refer to *Dialer: Auto Codes*, page 5-85.

7. Access and configure the parameters in the Communication Format menu, as follows:

Dialer: Communication Format

Quick Keys	Parameter	Default
5 3 1	**Format for MS Tel No. 1**	0000
	Defines the protocol format for the first MS telephone number. 1. Type in the 4-digit Format Code that corresponds to the communication protocol for the MS Receiver connected to the first MS Telephone Number. 2. Toggle to access the **[0 to 9]** keys using the (Status)/(?) or (Bypass)/(→) keys. 3. Press (#/Disarm)/(#/6).	
5 3 2	**Format for MS Tel No. 2**	0000
	Defines the protocol format for the second MS telephone number. Same as the option described above, except for the receiver connected to the second MS Telephone Number.	
5 3 3	**Format for MS Tel No. 3**	0000
	Defines the protocol format for the third MS telephone number. Same as the option described above, except for the receiver connected to the third MS Telephone Number.	

Monitoring Station (MS) Communication Formats

Protocols	Communication Formats	Format Code
Most Common Protocols:		
ADEMCO Contact (Point) ID	DTMF, Parity	0420
SIA Level		0700
Simple Pulse Protocols:		
Silent Knight/ADEMCO Slow		010F
Silent Knight/ADEMCO Slow-Extended		014F
Radionics/DCI/Franklin Slow		0117
Silent Knight Fast		010E
Silent Knight Fast-Extended		014E
Sescoa/Franklin/Vertex/DCI Fast		0116
Sescoa/Franklin/Vertex/DCI-Extended		0156
Universal High Speed Non-Extended		0112
Radionics Protocols:		
Radionics, 20 PPS	handshake at 1400 Hz	0202
	handshake at 2300 Hz	0212
Radionics, 20 PPS-Extended	handshake at 1400 Hz	0242
	handshake at 2300 Hz	0252
Radionics, 40 PPS	handshake at 1400 Hz	0200
	handshake at 2300 Hz	0210
Radionics, 40 PPS-Extended	handshake at 1400 Hz	0240
	handshake at 2300 Hz	0250
Radionics, 40 PPS, with Parity	handshake at 1400 Hz	0220
	handshake at 2300 Hz	0230
Radionics, 40 PPS-Extended, with Parity	handshake at 1400 Hz	0260
	handshake at 2300 Hz	0270
Other Protocols:		
Sescoa, Super Fast, with Parity	4 + 3 + Parity	0331
Sescoa, Super Fast, with Parity + ETX	4 + 3 + Parity	03B1
ADEMCO Express	4 + 2+ Parity	0520
Sweden Robofon		0600

5 4 Dialer: Access and ID

The Access and ID menu enables you to set the access and ID Codes for communication between the technician and the installation using the Upload/Download software.

➢ **To access the Access and ID menu:**

1. Access the Dialer menu, as described on page 5-64.
2. From the Dialer menu, press **[4]** to access the Access and ID menu options. The following display appears:

```
ACCESS & ID:
1) ACCESS CODE ↓
```

3. Access and configure the parameters in the Access and ID menu, as follows:

Dialer: Access and ID

Quick Keys	Parameter	Default
5 4 1	**Access Code**	5678

Enables you to define an Access Code that is stored in the ProSYS.

RISCO Group recommends using a different 4-digit Access Code for each installation.

In order to enable communication between the MS and the installation, the same Access Code must subsequently be entered into the corresponding account profile created for the installation in the Upload/Download software.

For successful communication, the Access Code along with the ID code (see below) must match between the Upload/Download software and the Main Panel.

1. Select a 4-digit Access Code. This code is stored in the ProSYS.
2. Enter the code selected into the account profile created for this installation in the Upload/Download software.
3. Press **[1]** and enter the 4-digit code.
4. Press (# Disarm)/(#/6).

Quick Keys	Parameter	Default
5 4 2	**ID Code**	0001

Defines an ID Code that serves as an extension of the Access Code, described in the procedure above.

In order to enable communication between the MS and the Installation, the same subsequently be entered into the account profile in the Upload/Download software.

For successful communication, the ID Code along with the Access Code (see above) must match between the Upload/Download software and the Main Panel.

Dealers often use the customer's MS Account Number for the ID Code, but you can use any 4-digit code unique to the installation.

1. Enter the selected code into the account profile created for this installation in the Upload/Download software.
2. Press **[1]** and enter the 4-digit code.
3. Press (# Disarm)/(#/6).

Dialer: Access and ID

Quick Keys	Parameter	Default
5 4 3	**MS Lock**	000000

MS Lock is a security function used in conjunction with RISCO Group's Upload/Download software. It provides greater proprietary security when viewing MS parameters.

The same 6-digit code, which will be stored in the panel, must be entered into the corresponding account profile created for the installation in the Upload/Download software.

If there is no match between the MS Lock Code defined in the Main Panel and the MS Lock Code defined in the Upload/Download software, the Installer will not have permission to change the following MS parameters from the Upload/Download software: Installer Code, MS phone numbers, the MS Lock Code, and the Default Enable jumper.

1. Press **[3]**.
2. Make a note of the 6-digit number for use in the Upload/Download software.

5 5 Dialer: Controls

The Controls menu contains parameters that enable you to control the ProSYS dialer operation.

➢ **To access the Controls menu:**

1. Access the Dialer menu, as described on page 5-64.
2. From the Dialer menu, press **[5]** to access the Controls menu options. The following display appears:

```
DIAL CONTROL:
01)MS ENABLE Y
```

NOTE:

The menus in this option require **[Y] YES** or **[N] NO** input.

3. Access and configure the parameters in the Controls menu, shown in the table below, as follows:
   - Access each parameter by pressing the menu number keys or by using the Status/ ? or Bypass/ keys.
   - Press the Stay/ key to toggle between **[Y] YES** and **[N] NO** and press #/Disarm/ #/6 (repeat for each parameter, as required).
   - Press the * key to return to the Dialer menu.

Dialer: Controls

Quick Keys	Parameter	Default
5 5 01	**MS Enable**	YES

YES: Enables communication with the MS to report alarms, trouble, and supervisory events.

NO: No communication with the MS is possible. Choose **NO** for installations that are NOT monitored by a MS.

Dialer: Controls

Quick Keys	Parameter	Default
5 5 02	**FM Enable**	YES
	YES: Enables Follow-Me communication. (Refer to *Follow-Me*, page 5-79.) If both the MS phones and the FM phones are defined, the system will first call the MS phones and then the FM phones. **NO:** Disables Follow-Me communication.	
5 5 03	**U/D Enable**	YES
	YES: Enables communication between the MS and the ProSYS Main Panel using the Upload/Download software. This enables modifying an installation's configuration, obtaining status information, and issuing Main Panel commands, all from a remote location. **NO:** Disables communication, as detailed above.	
5 5 04	**Call Delay**	YES
	YES: Event reports to the MS are delayed for 15 seconds after they are detected. **NO:** Event reports are sent immediately.	
5 5 05	**Dial Tone**	YES
	YES: The ProSYS waits a short (selectable) interval to detect a dial tone before dialing the MS. (Refer to *Dial Tone Time*, page 5-76.) **NO:** The ProSYS dials without waiting.	
5 5 06	**Call Save**	NO
	YES: For reducing MS traffic congestion, the system holds all non-urgent events (for example, opening/closing reports, test transmissions) for up to 12 hours (programmable) and sends them as a batch at a less busy time, for example, at night. (Refer to *Dialer: Periodic Test*, page 5-84.) **NO:** All events are transmitted as they occur.	
5 5 07	**User Initiated Call**	YES
	YES: For a remote Upload/Download session to take place, the user must first enter specific keypad commands in the User Functions mode. Refer to the *ProSYS User's Manual* (Quick Keys **[*][2][8]**) for additional details. **NO:** Upload/Download operations are possible without requiring the user's participation.	
5 5 08	**Call Back U/D**	YES
	YES: Requires the ProSYS Main Panel to call back the pre-programmed telephone number to which the MS's Upload/Download computer is connected. Refer to *U/D Phones*, page 5-66 This provides more security for U/D operations. **NO:** The MS's computer calls the number set for Upload/Download. No callback is required.	

Dialer: Controls

Quick Keys	Parameter	Default
5 5 09	**Auto Batch**	NO

YES: The ProSYS Main Panel calls the MS's computer at a preset time. (Refer to *Dialer: Periodic Test*, page 5-84.) The Upload/Download software downloads a batch of previously programmed installation data from the MS to the account.

NOTE:

For the **Auto Batch** parameter to work:

The computer must be turned on, connected to a phone line, and have the Upload/Download software loaded.

-AND-

The call must be initiated by the account.

For further information about Auto Batch, refer to the *Upload/Download User's Manual*.

NO: The AUTO BATCH mode is disabled.

Quick Keys	Parameter	Default
5 5 10	**Answering Machine Override**	YES

YES: The Answering Machine Override is enabled, as follows:

- The Upload/Download software at the MS calls the account.
- The software hangs up after one ring by the U/D operator.
- Within one minute, the software calls again.
- The ProSYS is programmed to pick up this second call on the first ring, thus bypassing any interaction with the answering machine.

NOTE:

This feature is used to prevent interference from an answering machine with remote Upload/Download operations.

NO: The Answering Machine Override is disabled, and communication takes place in the standard manner.

Quick Keys	Parameter	Default
5 5 11	**UL Installation**	NO

YES: Disables features inappropriate for UL listed installations. This feature disables the use of Upload/Download and permits a status display only when remotely accessed.

NO: No features are disabled.

Quick Keys	Parameter	Default
5 5 12	**Show Kissoff**	NO

YES: All five LEDs on the right side of the keypad(s) light for one second when the dialer receives the *kissoff* signal from the MS's receiver.

NO: The LEDS do not light up on receipt of the *kissoff* signal.

Quick Keys	Parameter	Default
5 5 13	**Show Handshake**	NO

YES: All five LEDs on the right side of the keypad(s) light up for one second when the dialer receives the *handshake* signal from the MS's receiver.

NO: The LEDS do not light up on receipt of the *handshake* signal.

Dialer: Controls

Quick Keys	Parameter	Default
5 5 14	**Audible Kissoff**	NO
	YES: There is an audible sound emitted from the keypad when the dialer receives the *kissoff* signal from the MS's receiver. **NO:** There is no audible sound on receipt of the *kissoff* signal.	
5 5 15	**Upload /Download GSM Enable**	NO
	This option allows performing remote Uploading /Downloading using the GSM/GPRS module through the data channel. **NOTE:** The data channel on the SIM card must be enabled. **YES**: Enables communication between the MS and the ProSYS using the U/D software over the GSM data channel. **NO**: Disables communication through the GSM data channel.	
5 5 16	**X. Modem Enable**	NO
	This option enables connection to the client's premises from a remote location using the Upload/Download software via a phone connection using a fast modem. **YES**: Connection to the client's premises is available **NO**: Connection to the client's premises is not available **NOTE:** When using this option, ensure that [5][5][15] Upload/Download GSM Enable is set to No.	

5 6 Dialer: Parameters

The Parameters menu contains parameters that enable the system to control additional aspects of the ProSYS dialer operation.

➢ **To access the Parameters menu:**

1. Access the Dialer menu, as described on page 5-64.
2. From the Dialer menu, press **[6]** to access the Parameters menu options. The following display appears:

```
DIAL PARAMETERS:
1)MS RETRIES      ↓
```

3. Access and configure the parameters in the Parameters menu, shown in the table below, as follows:
   - Access each parameter by pressing the menu number keys or by using the Status/ ? or Bypass/ keys.
   - Enter the relevant value or confirm the existing value by pressing # Disarm/ #/6.
   - Press the * key to return to the Dialer menu.

Dialer: Parameters

Quick Keys	Parameter	Default	Range
5 6 1	**MS Retries**	08	01 to 15
	The number of times the ProSYS redials the MS after failing to establish communication.		
5 6 2	**FM Retries**	03	01 to 15
	The number of times the Follow-Me phone number is redialed.		
5 6 3	**Rings to U/D**	12	01 to 15
	The number of rings before the ProSYS answers an incoming call (for remote programming). **NOTE:** When the **Answering Machine Override** parameter is enabled (refer to page 5-74), this parameter is ignored.		
5 6 4	**Dial Tone Time**	6 seconds	6 or 9 seconds
	The number of seconds the ProSYS waits when the **Dial Tone** parameter is enabled (refer to page 5-73). 1. Use the Status/ ? or Bypass/ → keys to toggle between 6 and 9 seconds. 2. Press #/Disarm/ #/6 to confirm the selection.		
5 6 4 1	**Wait 6 Seconds**		
	Select **[1]** and press #/Disarm/ #/6.		
5 6 4 2	**Wait 9 Seconds**		
	Select **[2]** and press #/Disarm/ #/6.		
5 6 5	**Redial Wait**	30 seconds	30 or 60 seconds
	The number of seconds between attempts at redialing the same phone number. Applies to both the **MS Retries** and **FM Retries** parameters, described above.		
5 6 5 1	**Wait 5 Seconds**		
	Select **[1]** and press #/Disarm/ #/6.		
5 6 5 2	**Wait 60 Seconds**		
	Select **[2]** and press #/Disarm/ #/6.		
5 6 6	**Dialing Method**	DTMF	DTMF (Touch Tone ®), Pulse @ 20 BPS, and Pulse @ 10 BPS
	When selecting the dialing method, your choice must be compatible with the type of phone service available at the protected premises. Use the Status/ ? or Bypass/ → keys to choose between the options.		

Dialer: Parameters

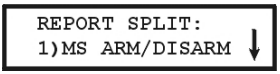
Quick Keys	Parameter	Default	Range
5 6 6 1	**DTMF (Touch Tone ®)**		
	Select **[1]** and press (#/Disarm)/(#/6) to activate the DTMF dialing method.		
5 6 6 2	**Pulse @ 20 BPS (pulses per second)**		
	Select **[2]** and press (#/Disarm)/(#/6) to activate the Pulse @ 20 BPS dialing method.		
5 6 6 3	**Pulse @ 10 BPS (pulses per second)**		
	Select **[3]** and press (#/Disarm)/(#/6) to activate the Pulse @ 10 BPS dialing method.		
5 6 7	**Pulse Duty Cycle**	61/39%	67/33% and 61/39%
	For pulse dialing, choose the proper dialing duty cycle for the location, as described below.		
5 6 7 1	**67/33%**		
	Select **[1]** and press (#/Disarm)/(#/6) for European telephone systems.		
5 6 7 2	**61/39%**		
	Select **[2]** and press (#/Disarm)/(#/6) for USA telephone systems.		
5 6 8	**Swinger Limit (Swinger Shutdown)**	00	00 to 15
	A swinger is a repeated violation of the same zone, often resulting in a nuisance alarm and usually due to a malfunction, an environmental problem, or the incorrect installation of a detector or sensor. This parameter specifies the number of violations of the same zone reported during a single armed period, before the zone is automatically bypassed. **NOTE:** Enter **00** to disable the swinger shutdown.		
5 6 9	**VM Retries**	01	01 to 05
	Defines the number of times a voice message repeats itself once received by a Follow-Me.		

5 7 Dialer: Report Split

The Report Split menu contains parameters that enable the routing of specified events to up to three MS Receivers.

➢ **To access the Report Split menu:**

1. Access the Dialer menu, as described on page 5-64.
2. From the Dialer menu, press **[7]** to access the Report Split menu options. The following display appears:



3. Access and configure the parameters in the Report Split menu, shown in the table below, as follows:

- Press **[1 to 4]** to enter a report category.
- For each category, enter the number of the option you want to assign to the category or choose it by using the Status/ ? or Bypass/ → keys and press #Disarm/ #/6.
- Press the * key to return to the Dialer menu.

Dialer: Report Split

Quick Keys	Parameter	Default
5 7 1	**MS Arm/Disarm**	1st Backup 2nd
	Reports Arming/Disarming (meaning Closings/Openings) events to the MS.	
5 7 1 1	**Do Not Call**	
	Does NOT report Openings and Closings.	
5 7 1 2	**Call 1st**	
	Reports Openings and Closings to the 1st MS Link-Up.	
5 7 1 3	**Call 2nd**	
	Reports Openings and Closings to the 2nd MS Link-Up.	
5 7 1 4	**Call 3rd**	
	Reports Openings and Closings to the 3rd MS Link-Up.	
5 7 1 5	**Call All**	
	Reports Openings and Closings to ALL MS Link-Up's.	
5 7 1 6	**1st Backup 2nd**	
	Reports Openings and Closings to the 1st MS Link-Up. If communication is not established, calls the 2nd MS Link-Up.	
5 7 1 7	**1st Backup 2nd3rd**	
	Reports the 1st MS Link Up. If communication is not established calls the 2nd MS link up. If communication is not established again calls the 3rd MS link up.	
5 7 1 8	**1st Backup 3rd Call 2nd**	
	Reports the 1st MS Link Up. If communication is not established calls the 3rd MS link up. In addition it will also call 2nd MS link up.	
5 7 1 9	**2nd Backup 3rd Call 1st**	
	Reports the 2nd MS Link Up. If communication is not established calls the 3rd MS link up. In addition it will also call 1st MS link up.	
5 7 2	**MS Urgent**	1st Backup 2nd
	Reports urgent (alarm) events to the MS. The report split options are the same as described under the Arm/ Disarm menu, quick key [5][7][1].	
5 7 3	**MS NON-Urgent**	1st Backup 2nd
	Reports non-urgent events (supervisory and test reports) to the MS. The report split options are the same as described under the Arm/ Disarm menu, quick key [5][7][1].	

Quick Keys	Parameter	Default
5 7 4	**FOLLOW ME**	By Partition

In addition to reporting to the MS, the ProSYS has a Follow Me feature which enables reporting a system event to a predefined phone or email (using the ACM module or GSM/GPRS module). Up to 8 Follow Me types can be defined in ProSYS 16 and ProSYS 40 and up to 16 can be defined in ProSYS 128.

This procedure is useful to alert a homeowner at work, or a business owner at home, of an alarm. There are 4 variations of the Follow-Me operation:

- **Standard Phone Call**: The Follow-Me call emits a series of tones representing an active alarm (intruder or fire) and can be employed on a partition-by-partition basis.
- **Phone Call to a Pager**: The Follow-Me call can be configured to a pager (numeric or alphanumeric) that displays a specific event (alarm or arm/disarm) and partition information. (Refer to Pager, page 5-8.)
- **SMS**: Using a GSM/GPRS module
- **Email**: Using the ACM module or GSM/GPRS module.

NOTE:

Follow-Me (**FM Enable**) must be enabled before any calls can be made (Refer to *FM Enable*, page 5-73.)

It is the user's responsibility to program Follow-Me phone numbers or email addresses from the User Functions mode (refer to the *User Functions* section in the *ProSYS User's Manual*).

In the below Follow Me quick keys, **FM** represents a selected Follow Me number between 1 and 16. Follow-Me numbers 1 through 9 can be accessed using quick keys or the Follow-Me menu, but 10 through 16 can only be accessed from the Follow Me menu.

In the Follow Me menu, select the Follow Me number as follows:

- Follow Me numbers 1 to 8:
  Use the Bypass / → key to reach the required number and press # Disarm / #/6.
- Follow Me numbers 9 to 16 (only ProSYS 128):
  Use the Bypass / → key to reach 9) More FM… and press # Disarm / #/6. The following display appears.

  ```
  FOLLOW ME:
  1) FM NO 9          ↓
  ```

  Use the Bypass / → key to reach the required Follow-Me number and press # Disarm / #/6.

You can define for each Follow Me the following parameters:

- Type
- Partition
- Events
- Restoral Events

Dialer: Report Split

Quick Keys	Parameter	Default
5 7 4 FM 1	**Follow-Me Type**	
	This option allows you to configure the format of the message sent to the Follow Me destination, in an occurrence of an event. Use the Status/ ? or Bypass/ keys until the required option is received.	
5 7 4 FM 1 1	**Voice**	
	Events are reported to the Follow Me number by voice messages	
5 7 4 FM 1 2	**SMS**	
	Events are reported to the Follow Me number by SMS. (Applicable only with GSM/GPRS module)	
5 7 4 FM 1 3	**GSM Mail**	
	Events are reported to the Follow Me destination by E-mail using the GPRS network. (Applicable only with GSM/GPRS module)	
	NOTE:	
	Remember to define the GPRS parameters using quick key [8][3][1][5]	
5 7 4 FM 1 4	**ACM Mail**	
	Events are reported to the Follow Me destination by E-mail using the ACM module.	
	NOTE:	
	Only Follow Me numbers 1 and 2 can be defined as ACM Mail.	
5 7 4 FM 2	**Follow-Me Partition**	
	Specify the partitions that will initiate the Follow-Me report due to a certain event that occurred in the assigned partitions.	
	NOTE:	
	Follow Me numbers 1 through 8 are assigned partitions 1 through 8, respectively by default. Follow Me numbers 9 through 16 are not assigned partitions by default. Ensure that they are assigned partitions otherwise the end user will not see them in the list of available Follow Me numbers.	
	1. Use the keys **[1 to 8]** keys to assign the partitions. 2. Press #/Disarm/ #/6.	
5 7 4 FM 3	**Follow-Me Events**	
	Specifies which events will activate this Follow-Me destination in the partitions assigned to the Follow-Me destination. Use the Status/ ? or Bypass/ keys to select the events from the list below, and then use the Stay/ and Arm/ keys to select **[Y] YES** or **[N] NO**. **[01]** Intruder Y **[02]** Fire Y	

Dialer: Report Split

Quick Keys	Parameter		Default
	[03]	Emergency	Y
	[04]	Panic	Y
	[05]	Tamper	N
	[06]	Remote Programming	N
	[07]	AC Off	N
	[08]	Duress	Y
	[09]	Arm	N
	[10]	Disarm	N
	[11]	Bypass	N
	[12]	Wireless Lost	N (When no supervision signal from the wireless zones is received.)
	[13]	Wireless Low Batt	N (wireless zone or keyfob)
	[14]	Bell Trouble	N
	[15]	False Code	N (When a wrong User Code is entered more than 3 times.)
	[16]	Low Battery	N (From main panel or power supply expander)
	[17]	Wireless Jamming	N
	[18]	BUS Trouble	N
	[19]	Provider Message (SMS/Email)	N (An automatic SMS SIM Credit message received from the provider phone can be transferred to a follow me number)
	[20]	Phone Trouble (SMS/Email)	N (PSTN lost event)
	[21]	GSM Low Battery (SMS/Email)	N
	[22]	GSM Trouble (SMS/Email)	N (General GSM fault (SIM card fault, Network availability, Network Quality, PIN code error, Module communication, GPRS password, GPRS IP fault, GPRS Connection, PUK code fault)
	[23]	Siren Low Battery (SMS/Email)	N (Low battery from BUS siren)
	[24]	SIM Expire (SMS/Email)	N (The message will be sent 30 days before the expire time of the SIM card, as defined in quick key [8][2][1][2][3])

2. After you have defined all the required phone events, press (#/Disarm)/(#/6).

Quick Keys	Parameter	Default
5 7 4 FM 4	**Follow-Me Restore**	

Specifies which events will activate this Follow-Me destination in the partitions assigned to the Follow-Me destination.

Use the Status/ ? or Bypass/ keys to select the events from the list below, and then use the Stay/ and Arm/ keys to select **[Y] YES** or **[N] NO**.

[01]	Intruder	Y
[02]	Tamper	N
[03]	AC Off	N
[04]	Wireless Lost	N (When no supervision signal from the wireless zones is received.)
[05]	Wireless Low Battery	N
[06]	Bell Trouble	N
[07]	Low Battery	N
[08]	Wireless Jamming	N
[09]	Bus Trouble	N
[10]	Phone Trouble Restore	N
[11]	GSM Low Battery Restore	N
[12]	GSM Trouble	N (Restore of all GSM module faults)
[13]	Siren Low Battery Restore	N

2. After you have defined all the required phone events, press #/Disarm/ #/6.

5 7 5	**E-mail**

To enable event reporting using the ACM, the following parameters should be defined:

[1] Mail IP Address: The IP address of the ACM mail server.

[2] Mail SMTP PRT: The port address of the ACM SMTP mail server port, used to send messages.

[3] Mail POP3 PRT: The port address of the ACM POP3 mail server port, used to retrieve e-mails.

[4] E-mail Prefix: The ACM email address prefix; 16 characters are used to define the ACM email prefix (for example in the ACM@riscogroup.com e-mail address, the prefix name is “ACM”).

[5] E-mail Domain: The ACM email address domain name, which identifies the web server of the ACM. For example, in the email address ACM@riscogroup.com, the domain name is riscogroup.com. (Do not enter the @ sign.)

Dialer: Report Split

Quick Keys	Parameter	Default
	[6] SMTP User Name: A parameter that defines the user name that the SMTP server requires for authentication when defined as such by the IT department. Up to 21 characters can be used.	
	[7] SMTP Password: A parameter that defines the password that the SMTP server requires for authentication when defined as such by the IT department. Up to 21 characters can be used.	
5 7 6	**Event Log**	
	The ACM will enable storing of unlimited amount of events over Ethernet resources, which can be used for backup and analysis.	
	[1] Enable	
	[2] E-Log IP Address	
	[3] E-log Port	

5 8 Dialer: Alarm Restore

The Alarm Restore menu specifies under what conditions an Alarm Restoral is reported. This option informs the MS of a change in the specified condition(s) during an alarm restore. These reports need a valid Report Code. Refer to *Report Codes*, page 5-87, for additional details.

➢ **To access the Alarm Restore menu:**

1. Access the Dialer menu, as described on page 5-64.
2. From the Dialer menu, press **[8]** to access the Alarm Restore menu options. The following display appears:

```
ALARM RESTORE:
1)ON BTO          ↓
```

3. Access and configure the parameters in the Alarm Restore menu, as follows:

Dialer: Alarm Restore

Quick Keys	Parameter
5 8 1	**On BTO**
	Reports the restoral after the audible alarm times out (**BTO** means Bell Time Out).
5 8 2	**Follow Zone**
	Reports the restoral when the zone in which the alarm occurs returns to its non-violated (secured) state.
5 8 3	**At Disarm**
	Reports the restoral when the system (or the partition in which the alarm occurs) is disarmed, even if the sounder has already timed out.

[5] [9] Dialer: Periodic Test

The Periodic Test menu enables you to set the time period that the ProSYS will automatically call the MS or Upload/Download phone numbers in order to check the phone line connection. It also sends reports of non-urgent events, which reduces the number of calls made (only if the **Call Save** option is defined as **YES**). (Refer to *Call Save*, page 5-73, for additional details).

➢ **To access the Periodic Test menu:**

1. Access the Dialer menu, as described on page 5-64.
2. From the Dialer menu, press **[9]** to access the Periodic Test menu options. The following display appears:

```
PERIODIC TEST
1)MS TEST          ↓
```

3. Access and configure the parameters in the Periodic Test menu, as follows:

Dialer: Periodic Test

Quick Keys	Parameter	Default	Range
[5] [9] [1]	**MS Test**	HR:00 MIN:00	00-24 hours 00-59 minutes

Sends Periodic Test reports to the MS Receiver monitoring the account and assigns a valid Report Code for these Periodic Test reports.

Set the test time and daily interval for Periodic Test Reporting, as follows:

1. Press **[1]**. The following display appears:

```
MS TEST:
HR=00 MIN=00 D:0
```

2. Use the keypad's numeric keys **[0 to 9]** and the Status/ ? or Bypass/ keys to type in the time of day (in 24-hour format) for Periodic Test reports to be sent.
3. Use the table below to specify the daily testing intervals (D)-effective from the day of programming:

D	Meaning
0	Never
H	Every hour
1	Every day
2	Every other day
3	Every 3rd day
4	Every 4th day
5	Every 5th day
6	Every 6th day
7	Once a week

4. Press the * key to return to the Dialer menu.

Dialer: Periodic Test

Quick Keys	Parameter	Default	Range
5 9 2	**UD Test**	HR:00 MIN:00	00-24 hours 00-59 minutes

Used to schedule periodic Auto Batch download using the Upload/Download software. This is the day, time of day (in 24-hour format) and time interval at which the customer's ProSYS automatically calls the MS's computer to download the Batch (selected parameters).

For additional details, refer to the *Upload/Download User's Manual*.

Set the test time and daily interval, as follows:

1. Use the keypad's numeric keys **[0 to 9]** and the Status/ ? or Bypass/ keys to enter the time of day (in 24-hour format) for an automatic download to occur.
2. Press **[2]**. The following display appears:

```
UD TEST:
HR=00 MIN=00 D:0
```

3. From the table below, choose the daily downloading intervals (D)- effective from the day of programming:

D	Meaning
0	Never
H	Every hour
1	Every day
2	Every other day
3	Every 3rd day
4	Every 4th day
5	Every 5th day
6	Every 6th day
7	Every 7th day

4. Press the * key to return to the Dialer menu.

5 0 Dialer: More

➢ **To access the More menu:**

1. Access the Dialer menu, as described on page 5-64.
2. From the Dialer menu, press **[0]** to access the More menu options. The following display appears:

```
SUBJ: DIALER
1) AUTO CODES
```

3. Access and configure the parameters in the More menu, as follows:

Quick Keys	Parameter
5 0 1	**Auto Codes**

The Auto Codes menu enables the resetting of all MS Report Codes to **00** without the need to restore factory defaults for the auto setting of the following MS formats:

- SIA
- ADEMCO Contact ID

5 0 1 1	**Contact ID**

The ProSYS allocates Report Codes supporting ADEMCO Contact (Point) ID.

1. Press Disarm/ #/6 to select this option and deselect the **SIA** option (described below). The following display appears:

```
POINT ID CODES
AUTO ALLOCATE? N
```

2. Press Stay/ 0 and Disarm/ #/6 to confirm your choice.
3. Press * to return to the previous programming level.

NOTE:
Any change in the system parameters requires you to reload the Auto Codes parameters in order to update the information that is being sent to the MS. Refer to *Dialer: Auto Codes*, page 5-85, for additional details.

5 0 1 2	**SIA**

The ProSYS allocates Report Codes supporting the SIA (Security Industry Association) format.

1. Press Disarm/ #/6 to select this option and deselect the **Contact ID** option (described above). The following display appears:

```
   SIA CODES
AUTO ALLOCATE? N
```

2. Press Stay/ 0 and Disarm/ #/6 to confirm your choice.
3. Press * to return to the previous programming level.

NOTE:
Any change in the system parameters requires you to reload the Auto Codes parameters in order to update the information that is being sent to the MS.

5 0 1 3	**Delete All**

The ProSYS resets to **00** all previously programmed MS Report Codes.

This does not change any other programmed parameters.

1. Press Disarm/ #/6 to select this option. The following display appears:

```
CLEAR ALL CODES
ARE YOU SURE? N
```

2. Press Stay/ 0 and Disarm/ #/6 to confirm your choice.
3. Press * to return to the previous programming level.

Quick Keys	Parameter	
NOTE: Any change in the system parameters requires you to reload the Auto Codes parameters in order to update the information that is being sent to the MS.		
5 0 2	**ACM Parameters**	
	See *ACM Installer Manual* for more information.	
5 0 2 1	**ACM IP Address**	192.168.001.100
	The static IP address that identifies the ACM module on the network.	
5 0 2 2	**ACM UD Port**	03000
	The port address of the ACM U/D application.	
5 0 2 3	**ACM AUX 1 Port**	00502
	The port address of the ACM AUX. The ACM AUX 1 protocol supports the MODBUS TCP/IP protocol by default.	
5 0 2 4	**ACM AUX 2 Port**	
	Provision for optional functionality	
5 0 2 5	**ACM AUX 3 Port**	
	Provision for optional functionality	
5 0 2 6	**SUBNET IP MASK**	255.255.255.0
	The definition of the network portion of the IP address. This location must be configured that all IP addresses up to and including the local gateway are allowed.	
5 0 2 7	**Gateway IP**	192.168.001.254
	The IP address of the local Gateway, which enables communication settings to other LAN segments. This address is the IP address of the router connected to the same LAN segment as the ACM module.	
5 0 2 8	**S.W Update IP**	192.168.100.001
	The IP address that the ACM turns to, for downloading the upgraded software.	
5 0 2 9	**S.W UPDT Port**	00080
	The port address that the ACM turns to, during the process of software upgrading.	
5 0 2 0	**More**	
	[1] U/D IP Mask: The IP address from which a connection to the ACM can be established via the U/D software. [2] ACM Net Name: A text name used to identify the ACM module over the network. [3] DNS#1 IP: Provision for optional functionality [4] DNS#2 IP: Provision for optional functionality [5] NTP IP: Network Time Protocol server IP address. [6] NTP Port: Network Time Protocol server IP port. [7] NTP UPD Time: Network Time update interval specified in days.	
5 0 3	**ACM Control**	
	See *ACM Installer Manual* for more information.	

Quick Keys	Parameter
5 0 3 1	**ACM Configuration** Defines the ACM parameters configuration. [1] Client ATN (default N): Provision for optional functionality [2] DHCP IP (default N): Defines whether the IP address, which the ACM refers to, is static or dynamic.
5 0 3 2	**ACM UD Configuration** [2] Enabled Defines the authorization type when using the U/D software application over the Ethernet network; [1] Disabled [2] Enabled
5 0 3 3	**ACM AUX 1 Configuration** MODBUS protocol support [1] Disabled [2] Enabled
5 0 3 4	**ACM AUX 2 Configuration** Provision for optional functionality [1] Disabled [2] Enabled
5 0 3 5	**ACM AUX 3 Configuration** Provision for optional functionality [1] Disabled [2] Enabled
5 0 4	**IP MS Polling**

This parameter checks connectivity between RISCO Group's IP/GSM Receiver software and the ProSYS panel by sending polling signals from the ProSYS ACM via the IP channel. Ensure that the IP channel has been configured properly in the IP/GSM Receiver software.

The information regarding which MS is to be used to perform the polling is defined according to the MS report split for “urgent events”.

The time intervals for performing the polling with each MS are defined in the below described IP Primary, Secondary and Backup parameters.

The following table describes how the three MSs use the primary, secondary and backup time intervals in the various MS report split options.

MS report split for urgent events options	MS#1 Polling State	MS#2 Polling State	MS#3 Polling State
Do not call	N/A	N/A	N/A
Call 1st	Primary	N/A	N/A
Call 2nd	N/A	Primary	N/A
Call 3rd	N/A	N/A	Primary
Call All	Primary	Primary	Primary
1st Backup 2nd	Primary	If (MS#1 is OK) Secondary else (MS#1 Fails) Backup	N/A

Quick Keys	Parameter			
	1st Backup 2nd 3rd	Primary	If (MS#1 is OK) Secondary else (MS#1 Fails) Backup	If (MS#2 is OK) Secondary else (MS#2 Fails) Backup
	1st Backup 3rd Call 2	Primary	Primary	If (MS#1 is OK) Secondary else (MS#1 Fails) Backup
	2nd Backup 3rd Call 1	Primary	Primary	If (MS#2 is OK) Secondary else (MS#2 Fails) Backup

NOTE:

The installer must manually enter the report code value of 87 under the Report Codes programming menu using quick keys [6][8][0][4]. This value represents SIA code ZZ and Contact ID code 999 that are used to validate the report process.

MS Polling example:
When selecting MS#1 (ACM), MS#2 (ACM) and split report option 1st Backup 2nd (using the default primary, secondary and backup time intervals), the report process will be as follows:
In a normal state:
Polling through the IP network using the ACM will occur every 30 seconds according to the primary time interval to MS#1 and every 3600 seconds (1 hour) according to the secondary time interval to MS#2.
When communication to MS#1 fails, polling occurs every 30 seconds according to the backup interval to MS#2. When communication returns to MS#1, polling reverts back to the secondary time interval and occurs every 3600 seconds (1 hour) to MS#2.

[5][0][4][1] IP MS Primary 00003 (x10 sec) 0-65535 sec

Defines the polling interval through the primary channel. When using the default time, a polling message is sent every 30 seconds.
When the IP Primary polling time is defined as 0, no polling message is sent to the MS (when the MS channel is in the Primary polling mode).

[5][0][4][2] IP MS Secondary 00360 (x10 sec) 0-65535 sec

Defines the polling interval through the secondary channel. When using the default time, a polling message is sent every 3600 seconds (1 hour).
When the IP Secondary polling time is defined as 0, no polling message is sent to the MS (when the MS channel is in the Secondary polling mode).

[5][0][4][3] IP MS Backup 00003 (x10 sec) 0-65535 sec

Defines the polling interval through the backup channel. When using the default time, a polling message is sent every 30 seconds.
When the IP Backup polling time is defined as 0, no polling message is sent to the MS (when the MS channel is in the Backup polling mode).

[5][0][5] ACM Function

The ACM Special function menu enables you to perform special operations of the ACM. This option is applicable for ACM with dedicated features that are customized per project (e.g. performing remote upgrade of the ACM).

[5][0][6] View ACM Configuration

For viewing the ACM hardware and software configurations.

6 Report Codes

The Report Codes menu enables you to program the codes transmitted by the ProSYS to report events (for example, alarms, troubles, restores, and supervisory tests) to the MS, as follows:

- The codes specified for each type of event transmission are a function of the MS's own policies. Before programming any codes, it is important to check the MS protocols.
- While most Communication Formats support the Report Codes detailed in the following pages, some do not (refer to page 5-68). Check with the MS monitoring your ProSYS accounts to determine if the Communication Format being used requires such programming.

  For example, the ADEMCO Contact (Point) ID and SIA formats support their own Report Codes. If either of these formats is used, the programming steps in this section are not relevant and should be ignored.
- Using a double-zero (**00**) for any event will prevent a report from being generated.

After you access the Report Codes menu from the main Installer Programming menu, as described in this section, you can access the following submenus:

➢ **To access the Report Codes menu:**

- From the main Installer Programming menu, press **[6]**, or press the Status/ ? or Bypass/ → keys until you find the number **[6] Report Codes** option and then press #/Disarm/ #/6. The first submenu (EMERGENCY KEY) appears:

You are now in the Report Codes menu and can access the required submenus for programming the many event codes supported by the ProSYS, as described in the following sections.

6 1 Report Codes: Emergency Key

The Emergency Key menu enables you to define the codes transmitted to the MS when an alarm is sent (meaning Police, Fire, and Auxiliary Emergency) via a keypad's emergency keys.

➢ **To access the Emergency Key menu:**

1. Access the Report Codes menu, as described on page 5-90.
2. From the Report Codes menu, press **[1]** to access the Emergency Key menu options. The following display appears:

```
EMERGENCY KEY:
1)ALARM
```

3. Access and configure the parameters in the Emergency Key menu, shown in the table below, as follows:
   - Press **[1]** to access Alarm Codes or press **[2]** to access Restore Codes.
   - Enter the number of the report (Panic, Fire, and so on).
   - Enter the code using the keypad's **[0 to 9]** keys or using the Status/ ? or Bypass/ → keys.
   - Press #/Disarm/ #/6 to complete the process.
   - Press the * key to return to the previous level.

Report Codes: Emergency Key

Quick Keys	Parameter	Default
6 1 1	**Alarm**	00
	Enter a 2-digit code for each of the following keypad-generated alarms.	
	Use the **00** default if the event should **not** be transmitted.	
	[1] Auxiliary Emergency (Special): To report an auxiliary emergency.	
	[2] Panic: To report a police emergency.	
	[3] Fire: To report a fire emergency.	
	[4] Duress: To report a duress emergency (refer also to the *ProSYS's User Manual*).	
6 1 2	**Restore**	00
	Enter the 2-digit code used to report a restoral of the above keypad emergencies.	
	[1] Auxiliary Emergency (Special): To report the restoral of an auxiliary emergency.	
	[2] Panic: To report the restoral of a police emergency.	
	[3] Fire: To report the restoral of a fire emergency.	
	[4] Duress: To report the restoral of a duress emergency.	

6 2 Report Codes: Zones

The Zones menu contains parameters of the Report Code generated when an alarm (or alarm restoral) occurs due to the violation of an armed zone.

➢ **To access the Zones menu:**

1. Access the Report Codes menu, as described on page 5-90.
2. From the Report Codes menu, press [2] to access the Zones menu options. The following display appears:
3. 

4. Access and configure the parameters in the Zones menu, shown in the table below, as follows:
   - Use the **[1 to 9]** keys to select a Report Code (Alarm, Trouble, and so on).
   - Enter the 2-digit zone number and the corresponding 2-digit Report Code, representing the event in this zone. If this event is not to be transmitted, use the **00** default.
   - Press # Disarm / #/6 to continue or press the * key to return to the previous programming level.

Report Codes: Zones

Quick Keys	Parameter	Default
6 2 1	**Alarm**	00
	To report an alarm in a designated zone.	
6 2 2	**Alarm Restore**	00
	To report an alarm restoral in the designated zone.	
6 2 3	**Trouble/Supervision**	00
	To report a Day Zone violation during the disarmed period and/or a wireless zone trouble caused by a management failure.	
6 2 4	**Trouble Restore/Supervision**	00
	To report a restoral after a Day Zone violation (see above).	
6 2 5	**Bypass**	00
	To report the selective bypassing (or force arming) of one or more zones.	
6 2 6	**Tamper**	00
	To report a tamper condition that occurs when a tamper switch on a DEOL resistor zone is violated. **NOTE:** If a zone with a tamper switch is bypassed, both the tamper switch and the Report Code are unaffected.	
6 2 7	**Tamper Restore**	00
	To report the restoral-to-normal of a tamper condition following the violation of a tamper switch on a DEOL resistor zone.	

Report Codes: Zones

Quick Keys	Parameter	Default
6 2 8	**Low Battery**	00
	To report a low battery condition in a wireless transmitter.	
6 2 9	**Low Battery Restore**	00
	To report the correction of a low battery condition.	

6 3 Report Codes: Accessory Tamper

The Accessory Tamper menu contains codes that enable reporting the violation (or restoral) of the tamper switch on a system accessory (a keypad or expansion module).

Keypads have built-in tamper switches. Many expansion modules (Utility Outputs and Power Supplies) also have an external tamper switch.

➢ **To access the Accessory Tamper menu:**

1. Access the Report Codes menu, as described on page 5-90.
2. From the Report Codes menu, press **[3]** to access the Accessory Tamper menu options. The following display appears:

```
ACCESSORY TAMPER
1)KEYPAD
```

3. Access and configure the parameters in the Accessory Tamper menu, shown in the table below, as follows:
   - Use the **[1 to 7]** keys to select the event category (keypad, Utility Output module, and so on).
   - Press the event number (keypad tamper, utility output tamper restore, and so on).
   - Enter the 2-digit keypad/utility output and the corresponding 2-digit Report Code representing the event (tamper or tamper restoral). If the event is not to be transmitted, use the **00** default.

NOTE:
If an accessory is not defined in the system, the default data will be (**--**) and not **00**.

Report Codes: Accessory Tamper

Quick Keys	Parameter	Default
6 3 1	**Keypad**	00
	[1] Keypad Tamper: Tamper Code for system keypad(s).	
	[2] Keypad Tamper Restore: Tamper Restore to Normal Report Code for system keypad(s).	
6 3 2	**Utility Output Module**	00
	[1] Utility Output Tamper: Tamper Codes for utility output modules.	
	[2] Utility Output Tamper Restore: Tamper Restore to Normal Report Code for utility output modules.	
6 3 3	**Power Supply Module**	00
	[1] Power Supply Tamper: Tamper Codes for power supply modules.	
	[2] Power Supply Tamper Restore: Tamper Restore to Normal Report Code for power supply modules.	

6 3 4	**Event Logger**	00
	[1] Event Logger Tamper: Tamper Codes for event logging modules.	
	[2] Event Logger Tamper Restore: Tamper Restore to Normal Report Code for event logging modules.	
6 3 5	**Wireless Button Accessory**	00
	[1] Wireless Button Accessory Tamper: Tamper Code for wireless buttons used in the installation.	
	[2] Wireless Button Accessory Tamper Restore: Tamper Restore to Normal Code for wireless buttons used in the installation.	
6 3 6	**Wireless Zone Expansion Module**	00
	[1] Wireless Zone Expansion Tamper: Tamper Code for Wireless Zone expansion modules.	
	[2] Wireless Zone Expansion Tamper Restore: Tamper Restore to Normal Code for Code for Wireless Zone expansion modules.	
6 3 7	**Advanced Voice Expansion Module**	00
	[1] Advanced Voice Module Tamper: Tamper Code for Advanced Voice module.	
	[2] Advanced Voice Module Tamper Restore: Tamper Restore to Normal Code for Code for Advanced Voice module.	
6 3 8	**Siren**	00
	[1] Siren Tamper: Tamper Code for tamper alarm from BUS siren.	
	[2] Siren Tamper Restore: Tamper Restore to Normal Report Code for tamper alarm from BUS siren.	

6 4 Report Codes: Main Trouble

The Main Trouble menu contains codes that enable reporting the detection (and restoral) of troubles related to the Main Panel's system operation.

➢ **To access the Main Trouble menu:**

1. Access the Report Codes menu, as described on page 5-90.
2. From the Report Codes menu, press **[4]** to access the Main Trouble menu options. The following display appears:

```
MAIN TROUBLE:
1)TROUBLE
```

3. Access and configure the parameters in the Main Trouble menu, shown in the table below, as follows:
   - Press **[1]** to access the Trouble Condition programming options, or press **[2]** to access the Trouble Restoral programming options.
   - Enter the appropriate Trouble Condition or Trouble Restore number.
   - Enter the 2-digit code representing the event.
   - Press # Disarm / #/6.
   - Press the * key to return to the previous programming level.

Report Codes: Main Trouble

Quick Keys	Parameter	Default
6 4 1	**Trouble Conditions**	00

Trouble Codes assigned to the Power Supply Accessory module:

[1] Low Battery: reports the detection of a weak (or missing) standby battery.

[2] Bell: reports a trouble condition with the management of an internal sounder wired to the Main Panel.

[3] Phone: reports a trouble condition regarding telephone service management.

[4] AC Loss: reports a trouble condition regarding the AC power supply to the ProSYS.

[5] AUX Fail: reports a trouble condition regarding the loss of Auxiliary Power (either continuous or switched) supplied by the ProSYS.

[6] Clock Not Set: reports a trouble condition caused by a Clock Not Set.

[7] BUS Fail: reports a trouble condition regarding a failure in the system's 4-wire BUS.

[8] False Code: reports the repeated use of an incorrect User Code to disarm the system.

[9] Bell Tamper: reports a tamper alarm of an external bell connected to the Main Panel.

[0] Box Tamper: reports a tamper alarm of the tamper switch connected to the box.

Quick Keys	Parameter	Default
6 4 2	**Trouble Restorals**	00

Trouble restoral codes assigned to the ProSYS Main Panel:

[1] Low Battery: reports the restoring to normal of a weak (or missing) standby battery.

[2] Bell: reports the restoring to normal of an internal sounder wired to the Main Panel.

[3] Phone: reports the restoring to normal of the telephone service to ProSYS.

[4] AC: reports the restoring to normal of AC power supply to the ProSYS.

[5] AUX: reports the restoring to normal of Auxiliary Power (either continuous or switched) supplied by the ProSYS.

[6] Clock Is Set: 2-digit code to report that the system's clock is now set.

[7] BUS Comm: report the restoring to normal of the system's 4-wire BUS.

[8] False Code: reports user viewing in the View Trouble menu. (Refer to the *ProSYS User's Manual* for additional details.).

[9] Bell Tamper: reports the restore of a bell tamper.

[0] Box Tamper: reports the restore of a box tamper.

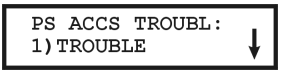
6 5 Report Codes: Power Supply Accessory Module Trouble

Default: 00

The Power Supply Accessory Module Trouble menu contains codes that enable reporting the detection or restoral of troubles relating to the operation of the Power Supply Accessory module.

➢ **To access the Power Supply Accessory Module Trouble menu:**

1. Access the Report Codes menu, as described on page 5-90.
2. From the Report Codes menu, press **[5]** to access the Power Supply Accessory Module Trouble menu options. The following display appears:



3. Access and configure the parameters in the Power Supply Accessory Module Trouble menu, as follows:
   - Press **[1]** to access the Trouble Condition programming options, or press **[2]** to access the Trouble Restoral programming options.
   - Enter the appropriate Trouble Condition or Trouble Restoral number.
   - Enter the Power Supply module ID number (1 digit).
   - Enter the 2-digit code representing the event.
   - Press # Disarm / #/6.
   - Press the * key to return to the previous programming level.

Report Codes: Power Supply Accessory Module Trouble

Quick Keys	Parameter	Default
6 5 1	**Trouble Conditions**	00
	Trouble Codes assigned to the ProSYS Main Panel: [1] Low Battery: reports the detection of a weak (or missing) standby battery. [2] Bell: reports a trouble condition regarding the management of an internal sounder connected to the Power Supply Accessory module. [3] AC Loss: reports a trouble condition relating to the AC power supply to the Power Supply Accessory module. [4] AUX Fail: reports the loss of Auxiliary power supplied by the Power Supply Accessory module. [5] Overload: used when the total current consumption from the AUX and BELL/LS outputs of the switched power supply exceeds 3A.	
6 5 2	**Trouble Restorals**	00
	Codes to report the detection or restoral of troubles with the operation of the Power Supply Accessory module: [1] Low Battery: reports the restoring to normal of a weak (or missing) standby battery. [2] Bell: reports the restoring to normal of the management of an external sounder. [3] AC Restoral: reports the restoring to normal of the AC power supply to the Power Supply Accessory module.	

Report Codes: Power Supply Accessory Module Trouble

Quick Keys	Parameter	Default
	[4] AUX: reports the restoring to normal of the Auxiliary power supplied by the Power Supply Accessory module.	
	[5] Overload: A report code for user initiated overload restore (User menu **[*] [2] [0] [5]**).	

6 6 Report Codes: Arm Codes (Closings)

The Arm Codes menu contains codes that enable the reporting of the Closing Signals generated when the system is ARMED (closed under a variety of conditions).

➢ **To access the Arm Codes menu:**

1. Access the Report Codes menu, as described on page 5-90.
2. From the Report Codes menu, press **[6]** to access the Arm Codes menu options. The following display appears:

```
ARM:
1)USER ARM
```

3. Access and configure the parameters in the Arm Codes menu, shown in the table below, as follows:
   - Press the number of the event to be programmed.
   - Enter the 2-digit code representing the event. (Refer to *Appendix C, Report Codes*, for any special instructions.)
   - Press # Disarm / #/6.
   - Press the * key to return to the previous programming level.

Report Codes: Arm Codes

Quick Keys	Parameter	Default
6 6 1	**User Arm**	00
	1. Enter the 2-digit Report Code representing the User. 2. Enter the 2-digit Report Code for system arming (closing) by the specific user.	
6 6 2	**Keyswitch Armed**	00
	Enter the 2-digit code for arming the system via a keyswitch. **NOTE:** No user identification is possible.	
6 6 3	**Auto Armed**	00
	A Report Code used when the system is Auto Armed as a result of a previously scheduled user-determined event. **NOTE:** No specific user identification is possible. Refer to the *ProSYS User's Manual* for additional details.	
6 6 4	**Remote Armed**	00
	A Report Code used when the system is Remotely Armed as a result of actions performed by the MS using its Upload/Download software.	

Report Codes: Arm Codes

Quick Keys	Parameter	Default
6 6 5	**Quick Armed**	00
	The 2-digit Report Code used when the system is Quick Armed.	
	NOTE:	
	No specific user identification is possible. Refer to the *ProSYS User's Manual* for additional details.	
6 6 6	**Forced Arm**	00
	A Report Code used when the system is Force Armed.	
6 6 7	**Wireless Button Armed**	00
	1. Enter the 2-digit Wireless Button ID. 2. Enter the 2-digit Report Code transmitted when the system is armed with this specific device.	

6 7 Report Codes: Disarm Codes (Openings)

The Disarm Codes menu contains codes that enable the reporting of the Opening Signals generated when the system is DISARMED (opened) in various conditions.

➢ **To access the Disarm Codes menu:**

1. Access the Report Codes menu, as described on page 5-90.
2. From the Report Codes menu, press **[7]** to access the Disarm Codes menu options. The following display appears:

```
DISARM:
1)USER DISARM
```

3. Access and configure the parameters in the Disarm Codes menu, shown in the table below, as follows:
   - Press the number of the event to be programmed.
   - Enter the 2-digit code representing the event. (Refer to *Appendix C, Report Codes*, for any special instructions.)
   - Press # Disarm / #/6.
   - Press the * key to return to the previous programming level.

Report Codes: Disarm Codes

Quick Keys	Parameter	Default
6 7 1	**User Disarmed**	00
	Report Code used for system disarming (opening) by a particular user.	
6 7 2	**Keyswitch Disarmed**	00
	Code to report system disarm via a keyswitch.	
	NOTE:	
	No specific user identification is possible.	

Report Codes: Disarm Codes

Quick Keys	Parameter	Default
6 7 3	**Auto Disarmed**	00
	Report Code used when the system is Auto Disarmed by a previously scheduled event.	
	NOTE: No specific user identification is possible. Refer to the *ProSYS User's Manual* for additional details.	
6 7 4	**Remote Disarmed**	00
	Report Code for Remote Disarming by the MS using its Upload/Download software.	
6 7 5	**Wireless Button Disarmed**	00
	Code to report disarming with this device.	

6 8 Report Codes: Miscellaneous

The Miscellaneous menu contains codes that enable the reporting of miscellaneous events to the MS.

➢ **To access the Miscellaneous menu:**

1. Access the Report Codes menu, as described on page 5-90.
2. From the Report Codes menu, press **[8]** to access the Miscellaneous menu options. The following display appears:

3. Access and configure the parameters in the Miscellaneous menu, shown in the table below, as follows:
   - Press the number of the event to be programmed, meaning enter programming, call back request, and so on.
   - Enter the 2-digit code representing the event.
   - Press Disarm/ #/6.
   - Press the * key to return to the previous programming level.

Report Codes: Miscellaneous

Quick Keys	Parameter	Default
6 8 1	**Enter Programming**	00
	Report Code for entering the Installer Programming mode, either locally (via the LCD keypad) or remotely (via the Upload/Download software).	
6 8 2	**Exit Programming**	00
	Report Code for termination of the Installer Programming mode, either locally (via the LCD keypad) or remotely (via the Upload/Download software).	
6 8 3	**Periodic MS Test**	00
	Report Code used for periodic MS Test transmissions. (Refer to *Dialer: Periodic Test*, page 5-84, for additional details).	

Report Codes: Miscellaneous

Quick Keys	Parameter	Default
6 8 4	**Periodic U/D Test**	00
	Report Code for the system's periodic Upload/Download (Auto Batch) transmissions.	
6 8 5	**Call Back Request**	00
	Report Code for automatic callback to the MS's Upload/Download software.	
6 8 6	**System Reset**	00
	Report Code for manual reset using the ProSYS DEFAULT (J2) jumper.	
6 8 7	**Abort Alarm**	00
	Report Code used when the system sends an ABORT message to the MS. (Refer to *Abort Alarm*, page 5-7, for additional details.)	
6 8 8	**Self-Test OK**	00
	Report Code for confirmation of a successful Zone Self-Test. (Refer to page 5-35 for additional details).	
6 8 9	**Self-Test Failure**	00
	Report Code for verification of an unsuccessful Zone Self-Test. (Refer to page 5-35 for additional details.)	
6 8 0	**More**	
	More Options…	
6 8 0 1	**Cancel Report**	00
	Report Code for a user-initiated cancellation of an alarm in progress. (Refer to the *ProSYS User's Manual* for additional details.)	
6 8 0 2	**Auto Arm Fail**	
	Report code used when the system sends an Auto Arm Fail message to the MS.	
6 8 0 3	**Listen In / Voice Alarm Verification**	
	You can call the MS and choose Listen in mode to listen to the events that have occured. The ProSYS enables the MS to perform Voice Alarm Verification in order to verify a cause of event or to guide someone in distress. **Note:** MS should support this feature and be configured to enable the operator the option to perform the Listen-In and Talk functions. To open the voice alarm confirmation channel, an extra event report (following the report of an urgent alarm) is sent to the MS receiver. This event informs the receiver that the ProSYS will automatically switch to Listen-In mode at the end of event transmission. The extra event report should be assigned manually. For Contact ID the ProSYS code should be 84 (Contact ID: Event code 606). For SIA the ProSYS code should be 84 (SIA: Event code LF). The Listen-In time period is defined as 2 minutes. During the Listen-In time period, the operator can switch to 'Talk" mode by pressing the '2' key, and go back to 'Listen-In" mode by pressing the '1' key. During the listen In time, any press on the digit "1" will expand the time in additional 2 minutes. Whenever the '*' key is pressed, the panel hangs up the line.	

Report Codes: Miscellaneous

Quick Keys	Parameter	Default
6 8 0 4	**Polling**	00

Defines the value that represents the polling signal of the IP and GPRS report channels (for SIA and Contact ID).

6 9 Report Codes: Special Communication

The Special Communication menu enables you to program the 3-digit Report Codes for MS Communication Formats requiring 3-digit Event Codes.

Refer to the *ProSYS Installer Programming Worksheets* for additional details.

➢ **To access the Special Communication menu:**

1. Access the Report Codes menu, as described on page 5-90.
2. From the Report Codes menu, press **[9]** to access the Special Communication menu options. The following display appears:

```
SPECIAL CODES:
CODE=AA SEND=000
```

3. Enter the 2-digit code to be modified. This number appears in the **CODE = AA** area of the display shown above.
4. Enter the 3-digit code to be actually sent. This number appears in the **SEND=000** area of the display shown above.
5. Press (#/Disarm)/(#/6).
6. Press the (*) key to return to the previous programming level.

6 0 Report Codes: Accessory Code

The Accessory Code menu enables you to program the Report Codes for operation of the following ProSYS accessories:

- Wireless Zone Expansion Module
- Wireless Button Module
- Wireless Button
- Printer Module

➢ **To access the Accessory Code menu:**

1. Access the Report Codes menu, as described on page 5-90.
2. From the Report Codes menu, press **[0]** to access the Accessory Code menu options. The following display appears:

```
ACCESSOR CODES:
1)WIRELESS ZE    ↓
```

3. Access and configure the parameters in the Accessory Code menu, as follows:

Report Codes: Accessory Code

Quick Keys	Parameter	Default
6 0 1	**Wireless Zone Expander**	

Press **[1]** to access each sub-category, as shown below.

Quick Keys	Parameter	Default
6 0 1 1	**Jamming Trouble**	00
	1. Enter the Wireless Zone Expander's 1-digit physical ID. 2. Enter the 2-digit Report Code for the module's detection of jamming interference, according to the parameters established on page 5-4.	
6 0 1 2	**Jamming Trouble Restore**	00
	1. Enter the Wireless Zone Expander's 1-digit physical ID. 2. Enter the 2-digit Report Code for the restore to normal detection of interference (see above).	
6 0 2	**Wireless Button Module**	00
	Press **[2]** to access each sub-category, as shown in the following options.	
6 0 2 1	**Jamming Trouble**	00
	1. Enter the Wireless Button Module's 1-digit ID. 2. Enter the 2-digit Report Code for the module's detection of jamming interference, according to the parameters established on page 5-4. 3. If this event is not to be transmitted, use the **00** default. 4. Press the * key to return to the previous programming level.	
6 0 2 2	**Jamming Trouble Restore**	00
	1. Enter the Wireless Button module's 1-digit ID. 2. Enter the 2-digit Report Code for the module's restore to normal detection of jamming interference, according to the parameters established on page 5-4. 3. If this event is not to be transmitted, use the **00** default. 4. Press the * key to return to the previous programming level.	
6 0 3	**Printer Module**	00
	Press **[3]** to access each sub-category, as shown below.	
6 0 3 1	**Printer Trouble**	00
	1. Enter the Printer module's 1-digit physical ID. 2. Enter the 2-digit Report Code for detection of printing difficulty by the module. 3. If this event is not to be transmitted, use the **00** default. 4. Press the * key to return to the previous programming level.	
6 0 3 2	**Printer Trouble Restore**	00
	1. Enter the Printer module's 1-digit physical ID. 2. Enter the 2-digit Report Code for the restore to normal of the detection of printing difficulty (see above). 3. If this event is not to be transmitted, use the **00** default. 4. Press the * key to return to the previous programming level.	

Report Codes: Accessory Code

Quick Keys	Parameter	Default
6 0 3 3	**Printer Buffer Full**	00
	Report Code for a full buffer in the module (a printing difficulty). The event will be sent if the buffer is full (above 75% of its capacity).	
6 0 3 4	**Printer Buffer Full Restore**	00
	Report Code for the restoral-to-normal of the module's buffer. The restoral will occur once the buffer decreases to 75% of its capacity.	
6 0 4	**Wireless Button**	00
	Press **[4]** to access each sub-category, as shown below.	
6 0 4 1	**Wireless Button Low Battery**	00
	Report Code for low battery condition.	
6 0 4 2	**Wireless Button Low Battery Restore**	00
	Report Code for correction of low battery condition.	
6 0 5	**Siren Trouble**	00
	Press **[5]** to access each sub-category, as shown below.	
6 0 5 1	**Trouble**	00
	Report codes for BUS siren trouble: [1] Low Battery: report code for low battery condition from siren x. [2] Bell: report code that indicates a siren trouble. [3] Auxiliary Fail: report code that indicates an auxiliary trouble on the siren x.	
6 0 5 2	**Trouble Restore**	00
	Report codes for BUS siren trouble restore: [1] Low Battery: report code for the restore of a low battery condition from siren x. [2] Bell: report code for the restore of a siren trouble. [3] Auxiliary Fail: report code that indicates an auxiliary trouble restore on siren x.	
6 0 6	**GSM Trouble**	00
	The GSM report codes menu.	

Report Codes: Accessory Code

Quick Keys	Parameter	Default
6 0 6 1	**Trouble**	00

Report codes for GSM faults:

[1] Tamper: report code of GSM box tamper alarm condition.

[2] Communication Trouble: report code of communication trouble between the GSM module and the ProSYS.

[3] Mains Trouble: report Code of loss of main power to the GSM module.

[4] Low Battery: report code for low battery condition.

[5] General Trouble: report code for general GSM fault that can result from: SIM card fault, Network availability, Network Quality, PIN code error, Module communication, GPRS password, GPRS IP fault, GPRS Connection, PUK code fault.

[6] Pre-alarm: report Code for correction of low battery condition.

Quick Keys	Parameter	Default
6 0 6 2	**Trouble Restore**	00

Report codes for GSM faults restore:

[1] Tamper Restore: report code for the restore of the GSM box tamper alarm condition.

[2] Communication Trouble Restore: report code for the restore of communication trouble between the GSM module and the ProSYS.

3] Mains Trouble Restore: report code for the restore of loss of main power to the GSM module.

[4] Low Battery Restore: report code for the restore of low battery condition.

[5] General Trouble Restore: report code for the restore of general GSM troubles that can result from: SIM card trouble, Network availability, Network Quality, PIN code error, Module communication, GPRS password, GPRS IP fault, GPRS Connection, PUK code fault.

[7] Accessories

The Accessories menu provides access to submenus and their related parameters that enable you to add to or remove keypads and expansion modules. From this section you can also access system tests to verify keypads and modules in order to check the quality of their connections to the 4-wire BUS, as described in the following sections:

[7] [1] **Add Delete Module**, page 5-105

[7] [2] **Verify Module**, page 5-118

[7] [3] **BUS Test**, page 5-118

[7] [4] **BUS Scanning**, page 5-119

[7] [5] **Auto Settings**, page 5-119

Walk Testing, another system check not included here, can be carried out from the ProSYS User Functions menu. (Refer to the *ProSYS User's Manual*.)

➢ **To access the Accessories menu:**

- From the main Installer Programming menu, press **[7]**, or press the Status/ ? or Bypass/ → keys until you find the number **[7] Accessories** option and then press #Disarm/ #/6. The first submenu (ADD/DEL MDL) appears:

```
ACCESSORIES:
1)ADD/DEL MDL          ↓
```

You are now in the Accessories menu and can access the required submenus, as described in the following sections.

[7] [1] Accessories: Add Delete Module

Default: NONE

The Add Delete Module menu contains parameters that enable you to add or delete an expansion module to the ProSYS (for example, a keypad, zone expander, power supply and so on).

➢ **To access the Add Delete Module menu:**

1. Access the Accessories menu, as described above.
2. From the Accessories menu, press **[1]** to access the Add Delete Module menu options. The following display appears:

```
ADD A MODULE:
1)KEYPAD
```

3. Access and configure the parameters in the Add Delete Module menu, as follows:

Accessories: Add Delete Module

Quick Keys	Parameter	Default	Range
7 1 1	**Keypad**	LCD	

STEP 1: CHOOSING A KEYPAD TYPE:

1. Press **[1]**. The following display appears:

```
KEYPADS:
ID=01 TYPE=LCD
```

2. Use the Status/ ? or Bypass/ keys to position the cursor over the keypad ID number for which you want to assign (or delete) a keypad. The first keypad must be assigned to the first ID number, which is **01**.

NOTE:
Make sure that the keypad's physical ID number has been "dip switch" programmed as described in *Chapter 3, Installing External Modules and Devices.*

3. Place the cursor on the **TYPE** field and use the Stay/ key to toggle between the five options provided to select the keyboard type, as follows:
   - NONE
   - LCD (keypad)
   - KP08 (8-LED keypad)
   - KP16 (16-LED keypad)
   - LCDP (proximity LCD keypad)
   - WLKP (wireless keypad)
4. Press #/Disarm/ #/6 to store your choice and proceed to *STEP 2: ASSIGNING A PARTITION*, below.

   If a keypad is found and **NONE** has been selected, the following display appears:

```
**DELETE**
ARE YOU SURE? N
```

5. Press #/Disarm/ #/6 to return to the prior display,

   -OR-

   Press the Stay/ key to select **[Y] YES** and press #/Disarm/ #/6 to confirm the delete.

STEP 2: ASSIGNING A PARTITION:

1. After pressing #/Disarm/ #/6 to store your keypad choice. The following display appears:

```
ASSIGN TO PAR:
KEYP=01  PAR=1
```

2. Assign keypad **01** to the selected partition using the **[1 to 8]** keys.

Quick Keys	Parameter	Default	Range

NOTES:

1. Non-partitioned systems are regarded as **Partition 1**. This partition specifies the location of the keypad and is mainly used for quick arming. Pressing the Arm Key automatically arms the partition.
2. In partitioned systems, keypads can be selectively assigned to specific partitions, but LED-type keypads can be used only in systems that do not exceed their ability to display zone indications. Therefore, the 8-LED keypad (p/n RP128KL0800A) cannot be used in a system with more than 8 zones, nor can the 16-LED keypad (p/n RP128KL1600A) be used when more than 16 zones are installed.

3. Press Disarm/ #/6 to confirm your choice.

STEP 3: ASSIGNING PARTITION ACCESSIBILITY:

Specifies the partitions that are controlled by the specified keypad. Information about the selected partitions can also be viewed on the specific keypad.

1. After pressing Disarm/ #/6 to store your partition choice. The following display appears:

```
P=12345678 KP=xx
YYYYYYYY MASK
```

2. For each partition (**1** to **8**), use the Stay/ key to toggle between **[Y] YES** and **[N] NO**.

NOTE:

The **xx** represents the ID number of the keypad.

3. Press Disarm/ #/6 to repeat the process for other keypads in the system (up to 16).
4. Press * to return to the previous programming level.

7 1 2 **Zone Expander** LCD

1. Press **[2]**. The following display appears:

```
ZONE EXPANDER:
ID=1  TYPE=NONE
```

2. Use the Status/ ?/ or Bypass/ keys to position the cursor over the Zone Expander's ID number to add or delete. The first Zone Expander must be assigned to ID **1**.

NOTE:

Check that the Zone Expander's physical ID number has been "dip switch" programmed, as described in *Chapter 3, Installing External Modules and Devices.*

3. Place the cursor over the **TYPE** field and use the Stay/ key to toggle between the options to select the required Zone Expander, as follows:
   - ZE08 (an 8 Hardwired Zone Expander)
   - ZE16 (a 16 Hardwired Zone Expander)
   - WZ08 (an 8 Wireless Zone Expander)
   - WZ 16 (a 16 Wireless Zone Expander)
   - FZ08 (an 8 Hardwired Zone Expander with FAST and extended loop response definitions)

Quick Keys	Parameter	Default	Range

- BZ08 (Virtual 8 Zone Expander)
- BZ16 (Virtual 16 Zone Expander)
- G3Z08 (an 8 Hardwired Zone Expander with TEOL termination)
- G3Z16 (a 16 Hardwired Zone Expander with TEOL termination)
- BZE08 (8 BUS zone expander)
- BZE16 (16 BUS zone expander)
- BZ24 (24 BUS zone expander)
- BZ32 (32 BUS zone expander)

4. Press (#/Disarm)/(#/🔓) to confirm (and store) your choice.
5. Repeat the process for other Zone Expanders in the system (up to 8, depending on your installed model).
6. Press (*) to return to the previous programming level.

   If a Zone Expander is found and **NONE** has been selected, the following display appears:

```
  **DELETE**
ARE YOU SURE? N
```

7. To return to the previous display, press (#/Disarm)/(#/🔓),

   -OR-

   Press the (Stay)/(🔒) key to select **[Y] YES** and press (#/Disarm)/(#/🔓) to confirm the delete.

7 1 3 **Utility Output Module** U008

1. Press **[3]**. The following display appears:

```
UTIL OUTPUT:
ID=1 TYPE=UO08
```

2. Use the (Status)/(?) or (Bypass)/(→) keys to position the cursor over the ID number to be assigned (or deleted) for this Utility Output. The first UO must be assigned to the first ID number, which is **1**.

NOTE:
Check that the UO's physical ID number has been "dip switch" programmed, as described in *Chapter 3, Installing External Modules and Devices.*

3. Place the cursor over the **TYPE** field and use the (Stay)/(🔒) key to toggle between the options and select the required Utility Output, as follows:
   - NONE
   - UO04 (a 4-Output Relay-Type Unit)
   - UO08 (an 8-Output Solid-State Type Unit)
   - XO08 (the X-10 Transmitting Module)
   - UO02 (2-Output Relay Type located on the 3A switched power supply expansion module)
4. Press (#/Disarm)/(#/🔓) to confirm (and store) your choice.
5. Repeat the process for any other Utility Output modules in the system (up to the system's maximum of 8, depending on your installed model).
6. Press (*) to return to the previous programming level.

Quick Keys	Parameter	Default	Range

If a Utility Output module is found and **NONE** has been selected, the following display appears:

```
  **DELETE**
ARE YOU SURE? N
```

7. Press (#/Disarm)/(#/6) to return to the prior display.

   -OR-

   Press (Stay)/(0) to select **[Y] YES** and press (#/Disarm)/(#/6) to confirm the delete.

7 1 4 **Power Supply Module** NONE

1. Press **[4]**. The following display appears:

```
POWER SUPPLY:
ID=1  TYPE=NONE
```

2. Use the (Status)/(?) or (Bypass)/(→) keys to position the cursor over the ID number to which you want to assign (or delete) the Power Supply module. The first PS must be assigned to the first ID number, which is **1**.

NOTE:
Check that the Power Supply's physical ID number has been "dip switch" programmed, as described in *Chapter 3, Installing External Modules and Devices*.

3. Place the cursor over the **TYPE** field and use the (Stay)/(0) key to toggle between the options and select the required Power Supply as follows:
   - **None**
   - **PS01**: 1.5A power supply
   - **PS02**: 3A power supply
4. Press (#/Disarm)/(#/6) to store your choice.
5. If **NONE** was selected, skip the next step. If **PS01** or **PS02** was selected, the following display appears:

```
SELECTED PS HAS
BELL/L. SPEAK? N
```

6. If a bell siren or loudspeaker is connected to the Power Supply module, press (Stay)/(0) to select **[Y] YES**; otherwise, press (#/Disarm)/(#/6). The Partition display appears.

NOTE:
If **YES** is selected, the system will look for, detect, and sound any problems in the sounder circuit.

```
P=12345678  PS=1
  Y.......
```

7. Use the (Status)/(?) or (Bypass)/(→) keys to select a partition number and then use the (Stay)/(0) key to toggle **[Y] YES** or **[N] NO** to assign that partition to the power supply.
8. Repeat the process for any other Power Supply modules in the system, up to the system's maximum of 8, depending on your installed model.

Quick Keys	Parameter	Default	Range

9. Press * to return to the previous programming level.

   If a Power Supply module is found and **NONE** has been selected, the following display appears:

```
  **DELETE**
ARE YOU SURE? N
```

10. Press #/Disarm / #/6 to return to the previous display,

    -OR-

    Press Stay / 0 to select **[Y] YES** and press #/Disarm / #/6 to confirm the delete.

7 1 5 **Event Logging Module** NONE

The event log stores events with their zone, UO number, and user number and time. Each ProSYS model has the built-in capacity to store 256 events, and the two larger models can be expanded, as follows:

- ProSYS 16 - Cannot be expanded. It will be displayed as Reserved.
- ProSYS 40 - Can be expanded to 512 events (with the RP296EL5).
- ProSYS 128 - Can be expanded to 512 events (with the RP296EL5) or to 999 events (with the RP296EL9).

1. Press **[5]**. The following display appears:

```
EVENT LOG:
TYPE=NONE
```

2. Place the cursor over the **TYPE** field and use the Stay / 0 key to toggle between the options and select the required Event Log, as follows:
   - NONE
   - LOG2 (external 512 Event Log Module)
   - LOG3 (external 999 Event Log Module)
3. Press #/Disarm / #/6 to confirm (and store) your choice.

   If an Event Logger is found and **NONE** has been selected, the following display appears:

```
  **DELETE**
ARE YOU SURE? N
```

4. Press #/Disarm / #/6 to return to the prior display,

   -OR-

   Press Stay / 0 to select **[Y] YES** and press #/Disarm / #/6 to confirm the delete.

Quick Keys	Parameter	Default	Range
7 1 6	**Wireless Button Module**	NONE	

The Wireless Button module is a wireless receiver add-on designed to process signals from up to eight handheld wireless button transmitters. Each wireless button transmitter (p/n RP128T4RC00A) is a rolling code transmitter with the following options: ARM, DISARM, PANIC, and UO ACTIVATION.

1. Press **[6]**. The following display appears:

```
WL BUTTON MODL:
ID=1 TYPE=NONE
```

2. Use either the Status/ ? or Bypass/ → keys to position the cursor over the Wireless Button module's ID number for which you want to assign (or delete) such a unit. The first (or only) Wireless Button module must be assigned to the first ID number, which is **1**.

NOTE:
Ensure that the selected Wireless Button module has been physically programmed with the same ID according to the supplied instructions.

3. Place the cursor over the **TYPE** field, and press Stay/ 🔒 to choose either **NONE** or **WBT8** (the only such module).
4. Press #/Disarm/ #/🔓.
5. Repeat the process for any other Wireless Button modules and Wireless Buttons.
6. Press * to return to the previous programming level.

   If a Wireless Button module is found and **NONE** has been selected, the following display appears:

```
**DELETE**
ARE YOU SURE? N
```

7. Press #/Disarm/ #/🔓 to return to the prior display,

   -OR-

   Press the Stay/ 🔒 key to select [**Y**] **YES** and press #/Disarm/ #/🔓 to confirm the delete.

7 1 7	**Printer Module**	NONE	NONE, PRNE, PRNA, PRN2

1. Press **[7]**. The following display appears:

```
PRINTER MODULE:
ID=1 TYPE=NONE
```

2. Use the Status/ ? or Bypass/ → keys to position the cursor over **ID=1** and type in the Printer module's ID number that you are assigning or deleting.

   The first (or only) Printer module must be assigned the first ID number, which is **1** (the system can support two such modules).

3. Place the cursor over the **TYPE** field, and press the Stay/ 🔒 key to toggle and choose from the 4 options provided, as follows:
   - NONE
   - PRNE (prints Main Panel events)

Quick Keys	Parameter	Default	Range

- PRNA (prints Access Control events)
- PRN2 (prints both of the above) (If you use this option, you cannot define a second printer.)

4. Press Disarm/ #/6 to store your choice and to repeat the process if there is a second Printer module in the system.

NOTE:
You can define two printers in the system, but both printers cannot print the same events.

5. Press Disarm/ #/6 to store your choice and to repeat the process if there is a second Printer module in the system.

6. Press * to return to the previous programming level.

   If a Printer module is found and **NONE** has been selected, the following display appears:

```
  **DELETE**
ARE YOU SURE? N
```

7. Press Disarm/ #/6 to return to the prior display,

   -OR-

   Press the Stay/ key to select **[Y] YES** and press Disarm/ #/6 to confirm the delete.

8. Press Disarm/ #/6 to begin. The only sub-category, WIRELESS BUTTON ALLOCATION, appears on the display. You may enter it by pressing Disarm/ #/6 OR by pressing the **[1]** key.

7 1 8

Access Control

1. Press **[8]**. The following display appears:

```
ACCESS CONTROL:
ID=1 TYPE=NONE
```

2. Use the Status/ ? or Bypass/ keys to position the cursor in the **ID=1** field and type in the Access Control module's ID number as defined by the dip switches that you set when you installed the module.

3. If required, position the cursor in the **TYPE** field and use the Stay/ key to toggle and choose the **AC** option.

4. Press Disarm/ #/6 to add the Access Control module.

```
CONTROLLER 1:
DOOR:2  READERS:2
```

NOTES:
Each Access Module has fixed numbering for the doors and the readers. For example, Access Module #1 is for doors 1 and 2; Access Module #2 is for doors 3 and 4, and so on.

5. Toggle the Stay/ and Arm/ keys to select the appropriate number of doors and readers that you want to define, as described in the following options and then press Disarm/ #/6:

Quick Keys	Parameter	Default	Range

- Select 1 door, 1 reader to initialize one door, and then proceed to step 7.
- -OR-
- Select 1 door, 2 readers to initialize one door, and then proceed to step 6.
- -OR-
- Select 2 doors, 2 readers to initialize two doors, and then proceed to step 7.

6. If you selected **1** door, **2** readers in step 5, then toggle the Stay/ and Arm/ keys to define the antipassback feature, as described below, and then press #Disarm/ #/6.
   - Select [Y] to enable the antipassback feature.
   - Select [N] to disable the antipassback feature.

NOTES:

Antipassback is a feature that protects against more than one person using the same card or number. Once a card is granted access to the reader at the entrance of the door, it must be presented to the reader at the exit of the door before it can be used again in the entrance reader.

In order to use the module's antipassback feature, you must install both readers on one door (one reader for the entrance and one reader for the exit). You can then enable/disable the antipassback feature, as required.

The default setting for the antipassback feature is set to **NO**.

7. Repeat steps 2 to 6 to add additional Access Control modules, if required,

   -OR-

   Press * to return to the previous programming level.

   If an Access Control module is found and **NONE** has been selected, the following display appears:

```
**DELETE**
ARE YOU SURE? N
```

8. Press #Disarm/ #/6 to return to the prior display,

   -OR-

   Press the Stay/ key to select **[Y] YES** and press #Disarm/ #/6 to confirm the delete.

7 1 9 — **More . . .**

Enables you to add Digital Key readers and Voice modules.

7 1 9 1 — **Proximity Key Reader**

1. Press **[1]**. The following display appears:

```
ADD A MODULE:
1)KEY READER
```

2. Press #Disarm/ #/6. The following display appears:

Quick Keys	Parameter	Default	Range

```
KEY RAEDER:
ID=01     TYPE=PKR
```

3. Use the Status/ ? or Bypass/ keys to position the cursor at **ID=1** and type in the Proximity Key Reader ID number as defined by the dip switches that you set when you installed the module.
4. With the cursor positioned at the **TYPE** field, use the Stay/ key to toggle and choose the **PKR** option.
5. Press #Disarm/ #/6. The following display appears:

```
KEY READER ID=01
INSTANT ARM? Y
```

6. Use the Stay/ key to toggle and choose **[Y] YES**.
   - If YES, the partitions will be armed instantly.
   - If NO, the Exit Delay time period will be applied.
7. Press #Disarm/ #/6. The following display appears:

```
P=123456789 KR01:
  Y........
```

8. Use the Status/ ? or Bypass/ keys and the Stay/ key to assign the partitions that will be affected by the instant arm function.
9. Press #Disarm/ #/6. The following display appears:

```
KEY READER ID=01
SHOW READY?   Y
```

10. Use the Stay/ key to toggle and choose the required option:
    - If YES, the ready status will be indicated on the reader.
    - If NO, no ready status indication will be indicated on the reader.
11. Press #Disarm/ #/6. The following display appears:

```
KEY READER  ID=01
SHOW ARM?       Y
```

    - If YES, the Arm status will be indicated on the reader.
    - If NO, no Arm status indication will be indicated on the reader
12. Press #Disarm/ #/6. The following display appears:

```
KEY READER  ID=01
SHOW STAY?      Y
```

    - If YES, the Stay status will be indicated on the reader.
    - If NO, no Stay status indication will be indicated on the reader
13. Press #Disarm/ #/6. The following display appears:

```
KEY READER  ID=01
SHOW BYPASS?    Y
```

Quick Keys	Parameter	Default	Range

If YES, the Bypass status will be indicated on the reader.If NO, no Bypass status indication will be indicated on the reader

14. Press (#/Disarm)/(#/🔒).

NOTE:
Recording tags can be performed only from Proximity Key Reader ID number **1**.

7 1 9 2 **Advanced Digital Voice Module**

1. Press **[2]**. The following display appears:

```
VOICE MODULE
TYPE=NONE
```

2. With the cursor positioned at the **TYPE** field, use the (Stay)/(🔒) key to toggle and choose the **VOICE** option.
3. Press (#/Disarm)/(#/🔒). The following display appears:

```
ENTER R. PHONE
CODE: 00
```

4. Type in a remote phone code and press (#/Disarm)/(#/🔒). The remote code is used when calling the system from a remote phone. Refer to the *ProSYS User's Manual* for additional details.

7 1 9 3 **Advanced Communication Module (ACM)**

1. Press **[3]**. The following display appears:

```
ACM MODULE:
TYPE=NONE
```

2. With the cursor positioned at the **TYPE** field, use the (Stay)/(🔒) key to toggle and choose the **ACM** option.
3. Press (#/Disarm)/(#/🔒) to store your choice.

NOTE:
If ACM module is found and NONE has been selected, Press (#/Disarm)/(#/🔒) to return to the prior display -OR- Press the (Stay)/(🔒) key to select [Y] YES and press (#/Disarm)/(#/🔒) to confirm the delete.

7 1 9 4 **Siren**

1. Press **[4]**. The following display appears:

```
OUT DOOR SIREN:
ID=1  TYPE=SIRN
```

2. Use the (Status)/(?) or (Bypass)/(→) keys to position the cursor over the **ID** number to which you want to assign and configure the siren.
3. With the cursor positioned at the **TYPE** field, use the (Stay)/(🔒) key to toggle and choose the **SIRN** option.
4. Press (#/Disarm)/(#/🔒). The Partition display appears.

Quick Keys	Parameter	Default	Range

```
P=12345678 S=1
  Y.......
```

5. Use the Status/ ? or Bypass/ → keys to select a partition number and then use the Stay/ 🔒 key to toggle **[Y] YES** or **[N] NO** to assign that partition to the siren.
6. Press #/Disarm/ #/6. The following display appears.

```
SIREN=1
SOUND?          Y
```

7. Use the Stay/ 🔒 key to toggle **[Y] YES** or **[N] NO** to activate or deactivate the sound.
8. Press #/Disarm/ #/6. The following display appears.

```
SIREN=1
SQUAWK SOUND?   Y
```

9. Use the Stay/ 🔒 key to toggle **[Y] YES** or **[N] NO.** If yes, the siren will sound one squawk to indicate the armed status.
10. Press #/Disarm/ #/6. The following display appears.

```
SIREN=1
SQUAWK STROBE?  Y
```

11. Use the Stay/ 🔒 key to toggle **[Y] YES** or **[N] NO.** If yes, the siren will flash to indicate the armed status.
12. Repeat steps 2 to 11 for other sirens if needed.

7 1 9 5 **BUS Zones**

This BUS Zone expander enables the ProSYS to support 32 addressable detectors (see below types) on the main unit without the need to add any additional hardware zone expanders (virtual zones).

The virtual BUS zone expander is used only in conjunction with the BUS zone detectors.

For detailed information refer to the instruction supplied with the detectors.

1. Press **[5]**. The following display appears:

```
Bus Zone:
(0:yy) TYPE=None
```

NOTE:
In the 0:yy designation, the 0 represents that the Bus detector is on the main unit and is not assigned to a Bus Zone Expander. The yy represents the Bus detector ID number (up to 32) as set by the detector's DIP switches.

2. Use the Status/ ? or Bypass/ → keys to position the cursor over **ID=1** and type in the Bus Zone ID number that you are assigning or deleting.

Quick Keys	Parameter	Default	Range

NOTE:
Make sure that the detector's physical ID number is identical to the ID number you select during programming.

3. Place the cursor over the **TYPE** field, and press the Stay/ key to toggle and choose from the options provided, as follows:
   - NONE
   - OPR12 (WatchOUT PIR detector)
   - ODT15 (WatchOUT DT detector)
   - WatIN (WatchIN DT detector)
   - ILUN3 (Industrial Lunar Grade 3 detector)
   - iDTG3 (iWISE DT Grade 3 detector)
   - iQDG3 (iWISE QUAD Grade 3 detector)
4. Press #Disarm/ #/6 to confirm. Repeat the process for the other BUS detectors.

NOTE:
If BUS detector is found and NONE has been selected, Press #Disarm/ #/6 to return to the prior display -OR- Press the Stay/ key to select [Y] YES and press #Disarm/ #/6 to confirm the delete.

7 1 9 6 GSM/GPRS Module

1. Press **[6]**. The following display appears:

```
GSM MODULE:
TYPE=NONE
```

2. With the cursor positioned at the **TYPE** field, use the Stay/ key to toggle and choose the **GSM** option.
3. Press #Disarm/ #/6 to store your choice.

NOTE:
If GSM/GPRS module is found and NONE has been selected, Press #Disarm/ #/6 to return to the prior display -OR- Press the Stay/ key to select [Y] YES and press #Disarm/ #/6 to confirm the delete.

7 1 9 7 X.Modem

The Fast PSTN Modem enables PSTN communication at 2400 Bps between a remote PC and the ProSYS security panel when programming the system using the Upload/Download software.

1. Press **[7]**. The following display appears:

```
XModem MODULE:
Type=XModm
```

2. With the cursor positioned at the **TYPE** field, use the Stay/ key to toggle and choose the **XModm** option.
3. Press #Disarm/ #/6 to store your choice.

7 2 Accessories: Verify Module

The Verify Module menu provides a verification list of the modules in accordance with the modules you defined in the **Add Delete Module** menu (page 5-105) or in the **Auto Settings** menu (page 5-119).

➢ **To access the Verify Module menu:**

1. Access the Accessories menu, as described on page 5-105.
2. From the Accessories menu, press **[2]** to access the Verify Module menu options. The following display appears:

```
VERIFY MODULE:
LCD:01 =LCD
```

3. Use the Status/ ? or Bypass/ keys to scroll down the list of displayed accessory devices (shown in the examples below) to ascertain that all keypads and expansion modules in the installation have been identified correctly.

```
VERIFY MODULE:
KP08:02 =KP08
```

```
VERIFY MODULE:
UO04:01 =UO04
```

```
VERIFY MODULE:
XO08:02 =XO08
```

The system displays each programmed device, its address, and whether or not it's found on the BUS. This helps you to identify programming mistakes.

7 3 Accessories: BUS Test

The BUS Test menu enables the ProSYS to check the communication between the Main Panel and each of the system's keypads and expansion modules.

➢ **To access the BUS Test menu:**

1. Access the Accessories menu, as described on page 5-105.
2. From the Accessories menu, press **[3]** to access the BUS Test menu options.
   The BUS testing begins to check the connections between the devices on the BUS, and the following display appears briefly:

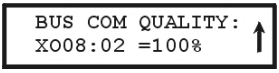
```
BUS TEST:
>--XXXXXX--<
```

The system then displays the programmed device, its address, and the quality of the communication, expressed as a percentage, as shown in the following examples:

```
BUS COM QUALITY:
LCD:01 =100%
```

```
BUS COM QUALITY:
KP08:02 =100%
```

```
BUS COM QUALITY:
UO04:01 =100%
```



A result of less than 100% means that there are BUS connection problems (for example, bad wiring or cabling located in a harsh electrical environment or two modules in the same family have been given the same ID number).

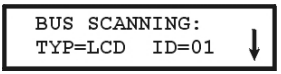
7 4 Accessories: BUS Scanning

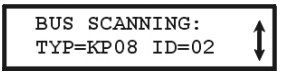
The BUS Scanning menu scans the BUS and reports all modules found.

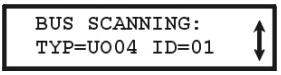
➢ **To access the BUS Scanning menu:**

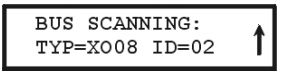
1. Access the Accessories menu, as described on page 5-105.
2. From the Accessories menu, press **[4]** to access the BUS Scanning menu options. The BUS Scanning begins, and the following display appears briefly:

3. Scroll down the list of accessory devices to ascertain that all keypads and expansion modules in the installation have been detected by the scan, as shown in the following examples:









The system displays each programmed device and its address.

Walk Testing

Comprehensive Walk Testing is an important part of system maintenance. It should be performed after installation and periodically afterwards by both the dealer and the customer.

When conducted within the User Functions mode, Walk Testing permits any of the ProSYS keypads whose "Local Buzzers" have been enabled under User Functions (refer to the *ProSYS User's Manual*) to briefly sound all zones violated during the test. On completion, use the keypad's Status/ ? or Bypass/ → keys to scroll through the list of the zones logged during the test.

7 5 Accessories: Auto Settings

The Auto Settings menu enables you to perform automatic setting of the accessories connected to the system by using the BUS scanning feature. This process also runs automatically when the system is defaulted and the AC power is turned on (refer to the *Accessing the Installer Programming Menu* section of *Chapter 4, Programming the ProSYS* for additional details).

➢ **To access the Auto Settings menu:**

1. Access the Accessories menu, as described on page 5-105.
2. From the Accessories menu, press **[5]** to access the Auto Settings Install menu.
   The Auto Settings process runs the BUS scanning. (Refer also to *Accessories: BUS Scanning*, page 5-119.)
   A list of the accessories that were found is displayed with the data definition that is required for each one.
3. View each accessory in the list, add/change parameters, as required, and press (# Disarm)/ (#/6) after each one to approve and save the accessory.

8 Miscellaneous

Default: NONE

The Miscellaneous menu contains submenus that enable you to define the parameters of various accessories:

8 1 **Key-fob**, below

8 2 **Siren**, page 5-124

8 3 **GSM**, page 5-125

➢ **To access the Miscellaneous menu:**

- From the main Installer Programming menu, press **[8]** or press the Status/ ? or Bypass/ → keys until you find the number **[8] Miscellaneous** option and then press #/Disarm/ #/6. The following display appears:

```
MISCELLANEOUS:
1)WL BUTT ALLOC
```

You are now in the Miscellaneous menu and can access the submenu, as described in the section that follows.

8 1 Miscellaneous: Key-fob

The Key Fobs menu contains parameters that enable ProSYS to allocate up to 32 rolling code Wireless key-fobs transmitters.

The wireless key-fob transmitters (p/n RP128T4RC00A) are rolling code transmitters with the following options: Away, Stay, Disarm, Panic, and Utility Output activation.

After you access the Key-fobs menu from the main Installer Programming menu, as described in this section, you can access the following submenu:

8 1 1 **Wireless Button Parameters,** below

8 1 2 **Wireless Button Allocation**, page 5-123

➢ **To access the Key-fobs menu:**

1. Access the Miscellaneous menu, as described above.
2. From the Miscellaneous menu, press **[1]** to access the Key-fobs menu options.

8 1 1 Wireless Button Parameters

The Wireless Button Parameters menu defines the operation of the wireless buttons keys. Some of the keys may be used for arming and disarming the system and for various other operations. This procedure is required when using the 4-key wireless transmitter (rolling code).

➢ **To access the Wireless Button Parameters menu:**

1. Access the Miscellaneous menu, as described above.
2. From the Miscellaneous menu, press **[1]** to access the Wireless Button Parameters menu options.
3. Use the Status/ ? or Bypass/ → keys to position the cursor and make any changes to the Button Number you want to *learn-in* to the system.

4. Press (#/Disarm)/(#/6).

Changing the Wireless Button Parameters

Each wireless button consists of 4 keys, and each key can be programmed to a different mode of operation.

➢ **To change the wireless button parameters:**

1. Assign the relevant partitions for the selected button.

```
P=12345678 WB=01
  Y.......
```

2. Set the parameters for the Arm Key #1 ( ) (used to perform the Away Arming operation) from the following options:
   - **NONE:** The key is disabled (default).
   - **AWAY:** The key is used for AWAY arming the assigned partitions.
   - **STAY:** The key is used for STAY arming the assigned partitions.
   - **GROUP:** The key is used for GROUP arming the assigned partitions.

NOTE:

Away or STAY arming can be defined as instant or delayed (Exit Delay).

3. After selecting the Arming type and mode of operation, press (#/Disarm)/(#/6). The system moves to the next key, and the following display appears:

```
TYPE KEY#2 WB=01
2) DISARM
```

4. Set the parameters for the Disarm Key #2 ( ) (used to perform the Disarming operation) from the following options:
   - **NONE:** The key is disabled (default).
   - **DISARM:** The key ID is used for disarming its assigned partitions.
5. After selecting the required option, press (#/Disarm)/(#/6). The system moves to the next key, and the following display appears:

```
TYPE KEY#3 WB=01
3) UO
```

6. Set the parameters for the Panic Key #3 (used to perform a Panic or Utility Output operation) from the following options:
   - **NONE:** The key is disabled (default).
   - **PANIC:** The key is used as a Panic button.
   - **UO:** The key is used to operate a Utility Output. When selecting this option, you must select a Utility Output. The following display appears:

```
UO KEY#3 WB=1
01) OUTPUT 01
```

7. After selecting the required option, press (#/Disarm)/(#/6). The system moves to the next key, and the following display appears:

```
UO KEY#4 WB=1
01) OUTPUT 01
```

8. Set the parameters for the UO Key #4 from the following options:
   - **NONE:** The key is disabled (default).
   - **AWAY:** The key is used for AWAY arming the assigned partitions.
   - **STAY:** The key is used for STAY arming the assigned partitions.
   - **GROUP:** The key is used for GROUP arming the assigned partitions
   - **UO:** The key is used to operate a Utility Output. When selecting this option, you must select a Utility Output:

NOTE:
Away or STAY arming can be defined as instant or delayed (Exit Delay).

9. After selecting the required option, press Disarm/ #/6.
10. Repeat the procedure to program the other wireless buttons.

8 1 2 Wireless Button Allocation

Default: NONE

This procedure is required when using a 4-key wireless transmitter.

➢ **To access the Wireless Button Allocation menu:**

1. Access the Miscellaneous menu, as described on page 5-120.
2. From the Miscellaneous menu, press **[2]** to access the Wireless Button Allocation menu options. The following display appears:

```
W BUTT ALOCAT:
BUTT#=01   (:01)
```

3. Use the Status/ ? or Bypass/ → keys to position the cursor and make any changes to the Button Number you wish to *learn-in* to the system.
4. Press Disarm/ #/6.
5. Select the appropriate option, as follows:
   - Press Disarm/ #/6 or press **[1]** to move to the next button. The following display appears:

```
BUTT=01   (EMPTY):
1) SKIP              ↓
```

   -OR-

   - Press Disarm/ #/6 or press **[2]** to write (or overwrite) data into the selected location. The following display appears:

```
BUTT=01   (EMPTY):
2) (RE)WRITE         ↕
```

   -OR-

   - Press **[3]** to erase the data in the selected location. The following display appears:

```
BUTT=01   (EMPTY):
3) ERASE             ↑
```

6. Press Disarm/ #/6 and then press Stay/ 0 and Disarm/ #/6 to confirm your selection.

8 2 Miscellaneous: Siren

The Siren menu enables defining all parameters of an external siren that can be connected to the ProSYS as a BUS accessory.

Up to 8 sirens can be added to the ProSYS and each can be assigned to any partition. Connection to the BUS enables Remote Control and Diagnostic support for a siren.

Siren Parameters

Quick Keys	Parameter	Default	
8 2 1	**Strobe Control**	**Follow Bell**	
	Defines the Strobe operation mode [1] Always Off - The strobe is deactivated. [2] Follow Bell - The strobe is activated when the siren bell is triggered. [3] Follow Alarm - The strobe is activated when an alarm occurs in the selected siren's partitions.		
8 2 2	**Strobe Blink**	40	
	Defines the number of times that the strobe will blink in a minute . [1] 20 [Times/Min] [2] 30 [Times/Min] [3] 40 [Times/Min] [4] 50 [Times/Min] [5] 60 [Times/Min]		
8 2 3	**Strobe Arm SQK**	Default: 01	Range: 01-20 (seconds)
	The time that the strobe will blink when the system is armed. **Note**: If the siren's squawk strobe is defined as **NO** (Refer to the *Add Delete Module, Siren* section, page 5-115) this parameter will be ignored.		
8 2 4	**Siren LED**	Follow Arm	
	Defines the operation mode of the Status LED2. [1] Always On - The status LED2 is always on [2] Always Off - The status LED2 is deactivated [3] Follow Arm - The status LED2 is activated when any of the siren selected partition is armed (Away or Stay mode) [4] Follow Alarm - The status LED 2 is activated after any alarm condition		
8 2 5	**Proximity Level Response**	3	0-9 sec
	Defines the time (seconds) for which a proximity violation must exist before the siren will trigger an anti approach alarm. The option 0 indicates that the proximity is deactivated.		
8 2 6	**Battery Load Test**		
	Enables to set the time period that the ProSYS will automatically generate a Load test on the battery.		

For detailed description of the additional software programming options refer to the instructions supplied with the siren.

8 3 Miscellaneous: GSM

RISCO Group's GSM/GPRS BUS Module is a cellular communication module for use with RISCO Group security panels that can be used as a backup or a substitute to a normal PSTN line.

Reporting to the MS can be performed using Voice, SMS or GPRS channel using RISCO Group's IP/GSM Receiver at the MS site.

Reporting to the user can be performed using Voice messaging, SMS or E-mail (using GPRS).

For detailed full information regarding the GSM/GPRS module refer to the instructions supplied with the product.

8 3 1 **GSM Parameters,** below

8 3 2 **GSM Control**, page 5-131

8 3 1 GSM Parameters

This sub menu enables you to program parameters that ensure proper operation of the GSM module.

GSM Parameters

Quick Keys	Parameter	Default	
8 3 1 1	**GSM Mode**		
	Configures the GSM module modes of operation (voice channel). 1. GSM Back Up – the outgoing calls are executed through the PSTN line. When the PSTN line is not available for the time defined in PSTN Lost (Quick key [8][2][1][2][1]), the outgoing calls will be executed using the GSM network. 2. GSM Only - the outgoing calls are executed through the GSM voice channel only. Use this option for installations where no PSTN line is available. 3. GSM Main (PSTN Backup) - the outgoing calls are executed through the GSM voice channel. When the GSM network is not available for the time defined in GSM Lost (Quick key [8][2][1][2][2]), the outgoing calls will be executed using the PSTN line. **Note:** This parameter is relevant only for GSM/GPRS full version module.		
8 3 1 2	**GSM Times**		
	The submenu of this feature allows to program timers related to operation with the GSM module.		
8 3 1 2 1	**PSTN Lost**	10 seconds	010-255 seconds
	The time after which the module will switch over to the GSM network upon PSTN lost. (PSTN is connected to the GSM/GPRS module). **Note:** This parameter is relevant only for GSM/GPRS full version module.		

GSM Parameters

Quick Keys	Parameter	Default	
8 3 1 2 2	**GSM Lost**	10 minutes	001-255 minutes

The time after which the module will switch over to the PSTN line upon GSM network lost.

Notes:

1) Network loss is defined as RSSI level below the level defined in the minimum RSSI LEVEL parameter (Quick key [8][2][1][8]).
2) This parameter is relevant only for GSM/GPRS full version module.

8 3 1 2 3	**SIM Expire Date**	00	00-36 Months

A Pre-paid SIM card has a defined life length defined by the provider. After each charging of the SIM, the user will have to manually reset the expiration time of the SIM card. 30 days before the expiring date, a notification will be displayed on the keypad's LCD.

Set the SIM expiring date (in months) using the numeric keys, according to the time given by the provider

8 3 1 3 **Prefix**

Prefix Number Definition

The following parameters (**Quick Key [8][2][1][3][1] to [8][2][1][3][0]**) are used for the prefix conversion, performed when dialing with the GSM module through the voice channel only. A description of the methodology is detailed below. For better understanding the procedure, use the examples on page 5-127.

Note:

The Prefix Numbers Conversion is relevant only for GSM/GPRS full version module and is used only for voice calls.

Conversion Methodology

1. If the dialed number begins with an outgoing line number (when the module is connected to the PBX and not directly to the PSTN line), the outgoing line number will be deleted.
   Go to step 2
2. If the dialed number begins with a prefix, (Constant prefix) recognized by the GSM/GPRS BUS Module, the module will not change the number.
   Go to step 5 else go to step 3
3. If the dialed number begins with a prefix that needs to be removed (Prefix to remove), the module will delete the Prefix number.
   Go to step 5 else go to step 4
4. If the dialed number has no prefixes known to the GSM/GPRS BUS Module, the module will add a Prefix (Prefix to add) defined in the security panel (usually used for the local area code of the PSTN).
   Go to step 5
5. Dial the number.

8 3 1 3 1 to 2 **PBX Prefix**

A number dialed to access an outgoing line when the module is connected to a Private Branch Exchange (PBX) and not directly to a PSTN line. The ProSYS enables to program two PBX numbers.

Each PBX number can contain up to 6 numeric characters.

GSM Parameters

Quick Keys	Parameter	Default
8 3 1 3 3 to 8	**Prefix Constant**	
	A number that is not to be corrected by the algorithm when calling from the GSM network, for example cellular telephone prefixes. The ProSYS enables to program up to 6 Prefix constants	
8 3 1 3 9	**Remove Prefix**	
	A number that will be deleted before dialing the number	
8 3 1 3 0	**Add Prefix**	
	A number that is to be added at the beginning of the dialed number, for instance an area code added to a local number, when calling from the GSM network	
	Example: The module is connected to PBX (Private Branch Exchange), which has a PSTN line in area code 03 after dialing the "access number" 9. The outgoing calls through the GSM module are allowed to the following telephone numbers: 03 910-5555 - owner's residence 052 366-4444 - owner's cellular 054 366-5555 - owner's spouse cellular The telephone numbers definition in the panel should be: "99105555", "90523664444", "90543665555" Configuring the module for such an operation requires programming the numbers and prefixes as described below: PBX prefix: "9" Prefix Constant: "052", "054" (or "05" only) Prefix to remove: None Prefix to add: "03" Telephone numbers dialed the by GSM module: "039105555", "0523664444", "0543665555	
8 3 1 4	**PIN Code**	
	The PIN (Personal Identity Number) code is a four-digit number giving you access to the GSM provider network. Enter the required PIN code followed by # Disarm / #/🔒.	
	Note: You can cancel the PIN code request function by inserting the SIM card into a regular mobile phone and according to the phone settings, disable this function.	
8 3 1 5	**GPRS**	
	The GPRS menu defines parameters ((**Quick Key [8][2][1][5][1] to [8][2][1][5][3]**) required when using the GPRS communication channel. Before programming these parameters, you should gather the required network settings information and enable the GPRS channel (for more information, contact the cellular provider).	
8 3 1 5 1	**APN code**	
	To establish a connection to the GPRS network an APN (Access Point Name) code is required. The APN code differs from country to country and from one provider to another (the APN code is provided by your cellular provider). The ProSYS supports an APN code field of up to 30 alphanumeric characters and symbols (!, &, ? etc).	

GSM Parameters

Quick Keys	Parameter	Default

8 3 1 5 2 **GPRS User Name**

Enter user name for the GPRS network (if required). The User name is provided by your provider.

The ProSYS supports a user name field of up to 20 alphanumeric characters and symbols (!, &, ? etc).

8 3 1 5 3 **GPRS User password**

The password to the GPRS network as provided by your provider (if required).

The ProSYS supports a user name field of up to 20 alphanumeric characters and symbols.

8 3 1 5 4 **GPRS MS Polling**

This parameter checks connectivity between RISCO Group's IP/GSM Receiver software and the ProSYS panel by sending polling signals from the ProSYS GSM via the GPRS channel. Ensure that the GPRS channel has been configured properly in the IP/GSM Receiver software.

The information regarding which MS is to be used to perform the polling is defined according to the MS report split for “urgent events”.

The time intervals for performing the polling with each MS are defined in the below described IP Primary, Secondary and Backup parameters.

The following table describes how the three MSs use the primary, secondary and backup time intervals in the various MS report split options.

MS report split for urgent events options	MS#1 Polling State	MS#2 Polling State	MS#3 Polling State
Do not call	N/A	N/A	N/A
Call 1st	Primary	N/A	N/A
Call 2nd	N/A	Primary	N/A
Call 3rd	N/A	N/A	Primary
Call All	Primary	Primary	Primary
1st Backup 2nd	Primary	If (MS#1 is OK) Secondary else (MS#1 Fails) Backup	N/A
1st Backup 2nd 3rd	Primary	If (MS#1 is OK) Secondary else (MS#1 Fails) Backup	If (MS#2 is OK) Secondary else (MS#2 Fails) Backup
1st Backup 3rd Call 2	Primary	Primary	If (MS#1 is OK) Secondary else (MS#1 Fails) Backup
2nd Backup 3rd Call 1	Primary	Primary	If (MS#2 is OK) Secondary else (MS#2 Fails) Backup

GSM Parameters

Quick Keys	Parameter	Default	
	Note:		
	The installer must manually enter the report code value of 87 under the Report Codes programming menu using quick keys [6][8][0][4]. This value represents SIA code ZZ and Contact ID code 999 that are used to validate the report process.		
	MS Polling example: When selecting MS#1 (GPRS), MS#2 (GPRS) and split report option 1st Backup 2nd (using the default primary, secondary and backup time intervals), the report process will be as follows: In a normal state: Polling through the GPRS network using the GSM module will occur every 90 seconds according to the primary time interval to MS#1 and every 3600 seconds (1 hour) according to the secondary time interval to MS#2. When communication to MS#1 fails, polling occurs every 90 seconds according to the backup interval to MS#2. When communication returns to MS#1, polling reverts back to the secondary time interval and occurs every 3600 seconds (1 hour) to MS#2.		
8 3 1 5 4 1	**GPRS Primary**	00009 (x10 sec)	0-65535 sec
	Defines the polling interval through the primary channel. When using the default time, a polling message is sent every 90 seconds. When the GPRS Primary polling time is defined as 0, no polling message is sent to the MS (when the MS channel is in the Primary polling mode).		
8 3 1 5 4 2	**GPRS Secondary**	00360 (x10 sec)	0-65535 sec
	Defines the polling interval through the secondary channel. When using the default time, a polling message is sent every 3600 seconds (1 hour). When the GPRS Secondary polling time is defined as 0, no polling message is sent to the MS (when the MS channel is in the Secondary polling mode).		
8 3 1 5 4 3	**GPRS Backup**	00009 (x10 sec)	0-65535 sec
	Defines the polling interval through the backup channel. When using the default time, a polling message is sent every 90 seconds. When the GPRS Backup polling time is defined as 0, no polling message is sent to the MS (when the MS channel is in the Backup polling mode).		
8 3 1 6	**Email**		
	The following programming parameters (**[8][2][1][6][1]) to ([8][2][1][6][6])** are used to enable sending Follow Me event messages by e-mail through GPRS		
	Note: 1. To enable e-mail messaging, the GPRS parameters have to be defined (see Quick Key [8][2][1][5]). 2. Sending e-mails is possible only through servers that do not require user authentication.		
8 3 1 6 1	**SMTP IP address**	000.000.000.000	
	The IP address of the SMTP mail server		
8 3 1 6 2	**SMTP port**	00000	00000-65535
	The port address of the SMTP mail server		

GSM Parameters

Quick Keys	Parameter	Default
8 3 1 6 3	**SMTP User name**	
	A name identifying the user to the SMTP mail server The user name field can include up to 10 alphanumeric characters and symbols (!, &, ? etc). Provision for future functionality.	
8 3 1 6 4	**SMTP Password**	
	The password authenticating the user to the SMTP mail server The password can include up to 10 alphanumeric characters and symbols (!, &, ? etc). Provision for future functionality	
8 3 1 6 5	**SMTP E-mail prefix**	
	The GSM e-mail address prefix. Up to 16 characters can be used to define the e-mail prefix. For example, in the GSM@riscogroup.co.uk e-mail address, the prefix name is “GSM”).	
8 3 1 6 6	**SMTP E-mail domain**	
	The GSM e-mail address domain name. Up to 33 characters can be used to define the e-mail domain. For example, in the e-mail address GSM@riscogroup.co.uk, the domain name is riscogroup.co.uk. **Note:** Do not enter the @ sign	
8 3 1 7	**Caller ID**	
	The Caller ID function enables the GSM module to restrict SMS remote control operations to predefined phone numbers (Follow Me numbers). The Caller ID function is performed according to the following: The module checks the last digits (defined number of digits) of the telephone number from which the SMS was sent from, and compares them, to the last digits of the Follow Me telephone numbers defined in the ProSYS. If the digits coincide, the number is recognized as one of the Follow Me numbers and the operation will be executed. Set the number of digits to be checked by the module.	
8 3 1 8	**RSSI Level**	
	The GSM Signal Level (RSSI) depends on the location in which the GSM/GPRS BUS Module is installed. This option allows you to set the lowest acceptable GSM Signal level. Set the minimum acceptable RSSI level using the numeric keys (0= No network connection, 5=High). Please be aware of the fact that this feature is used for trouble shooting purpose only.	

8 3 2 GSM Control

This sub menu enables to program parameters allowing proper operation of the GSM module

Devices: GSM

Quick Keys	Parameter	Default
8 3 2 1	**Disable Incoming Call**	No

This parameter is used to disable all incoming calls trying to come in via the GSM voice channel.

Notes:

1. Only SMS or Upload/Download incoming calls are allowed.
2. This parameter is relevant only for GSM/GPRS full version module.

9 Access Control

Default: NONE

The Access Control menu enables you to define all the parameters for the Access Control module.

After you access the Access Control menu from the main Installer Programming menu, as described in this section, you can access the following submenus:

9 1 **Door Define**, page 5-132

9 2 **Card Code Position**, page 5-135

9 3 **Special Code**, page 5-136

➢ **To access the Access Control menu:**

- From the main Installer Programming menu, press **[9]**, or press the Status/ ? or Bypass/ → keys until you find the number **[9] Access Control** option and then press #/Disarm/ #/6. The first submenu (DOOR DEFINE) appears:

```
ACCESS CONTROL:
1)DOOR DEFINE      ↓
```

You are now in the Access Control menu and can access the required submenus, as described in the following sections.

9 1 Access Control: Door Define

The Door Define menu contains parameters that enable you to define the door parameters for the Access Control module.

➢ **To access the Door Define menu:**

1. Access the Access Control menu, as described on page 5-132.
2. From the Access Control menu, press **[1]** to access the Door Define menu options. The following display appears:

```
SELECT A DOOR:
01) DOOR 01
```

3. Use the Status/ ? or Bypass/ → keys to select the door number that you want to program and press #/Disarm/ #/6.
4. Access and configure the parameters in the Door Define menu, as follows:

Access Control: Door Define

Quick Keys	Parameter	Default	Range
9 1 1	**Partitions**		

Defines which partitions are assigned to the door.

1. Press **[1]** and then press Disarm/ #/6.
2. Use the Status/ ?/ or Bypass/ keys to select a partition number and then use the Stay/ key to toggle **[Y] YES** or **[N] NO** to assign that partition to the door.
3. Press Disarm/ #/6.

NOTE:

The logic that stands behind the partitions that are assigned to the door is to create a walking path. For example, if in a certain office all the partitions are armed and the manager wants to enter only his room, then you can assign the door for the partitions on his way to the office. In this way when he disarms the system by using his access card, he will disarm only the waking path partitions.

9 1 2	**Door Time Settings**		

Defines the open delay, door force delay, and the door alarm delay settings.

1. Press **[2]** and press Disarm/ #/6.
2. Select the required door time settings option:
   - Open Delay
   - Door Force Delay
   - Door Alarm Delay

9 1 2 1	**Open Delay**	4 seconds	1-99 seconds

Determines the amount of time that the door relay is open after a valid entry.

1. Press **[2]** and Disarm/ #/6 to enter the door time settings.
2. Press **[1]** and Disarm/ #/6.
3. Enter the number of seconds (between 1-99) to define the door open relay time.
4. Press Disarm/ #/6.

9 1 2 2	**Door Force Delay**	NO	YES/NO

Determines whether an alarm is activated on relay 3 (of the Access Module) immediately when the door is forced open or is activated according to the time defined in the **Door Alarm Delay** parameter (described below).

1. Press **[2]** and Disarm/ #/6 to enter the door time settings.
2. Press **[2]** and Disarm/ #/6.
3. Toggle the Stay/ key to select the appropriate option, as follows:
   - **YES:** Activates the door alarm delay according to the **Door Alarm Delay** parameter (described below).
   - **NO:** Activates an immediate alarm when the door is forced open.
4. Press Disarm/ #/6.

Access Control: Door Define

Quick Keys	Parameter	Default	Range
9 1 2 3	**Door Alarm Delay**	10 seconds	1-99 seconds

Determines the amount of time that the door can remain open before an alarm is activated (triggered on relay 3). This option also determines the amount of time that passes until an alarm is activated when the door is forced open.

1. Press **[2]** and Disarm/ #/🔓 to enter the door time settings.
2. Press **[3]** and Disarm/ #/🔓.
3. Enter the number of seconds (between 1-99) to define the door alarm relay time.
4. Press Disarm/ #/🔓.

Quick Keys	Parameter	Default	Range
9 1 3	**Door Fire Settings**	Open	Open/Closed

Determines the status of the door during a fire alarm as either **open** or **closed**. Once a fire alarm is triggered by the ProSYS, the system sends a fire alarm notification to the Access Control module, which sets the door relay to the required position during the fire alarm.

1. Press **[3]** and Disarm/ #/🔓.
2. Toggle the Stay/ 🔓 key to select the appropriate option, as follows:
   - **YES:** Keeps the door **open** during a fire alarm.
   - **NO:** Keeps the door **closed** during a fire alarm.
3. Press Disarm/ #/🔓.

Quick Keys	Parameter
9 1 4	**Door Input Settings**

Defines the status of the door relay input during operation.

1. Press **[4]** and Disarm/ #/🔓.
2. Select the required door relay input:
   - Door Contact
   - Request to Exit (RTE) Button

Quick Keys	Parameter	Default	Range
9 1 4 1	**Door Contact**	NO (normally open)	NO/NC

This door contact starts a timer in the reader interface that notifies the system when a door is open. Press **[4]** and Disarm/ #/🔓 to enter the door input settings.

1. Press **[1]** and Disarm/ #/🔓.
2. Toggle the Stay/ 🔓 key to select the appropriate door contact termination, as follows:
   - **NO:** Sets the door contact to normally open.
   - **NC:** Sets the door contact to normally closed.
3. Press Disarm/ #/🔓.

Access Control: Door Define

Quick Keys	Parameter	Default	Range
9 1 4 2	**RTE Button**	NO (normally open)	NO/NC

When pressed, this device sends a command to the door relay.

1. Press **[4]** and Disarm/ #/6 to enter the door input settings.
2. Press **[2]** and Disarm/ #/6.
3. Toggle the Stay/ key to select the appropriate RTE button termination, as follows:
   - **NO:** Sets the RTE button to normally open.
   - **NC:** Sets the RTE button to normally closed.
4. Press Disarm/ #/6.

Quick Keys	Parameter
9 1 5	**Door Label**

Enables you to assign a door label.

1. Press **[5]** and Disarm/ #/6.
2. Enter a door label. (Refer to *Entering a New Label Using the LCD Keypad*, page 5-13.)
3. Press Disarm/ #/6.

9 2 Access Control: Card Code Position

Default: 00 **Range:** 00-37

The Card Code Position menu enables you to specify the position that the system will start to read the 8-digit card code only on Magnetic or Barcode technologies. The position that you define is applicable to all cards in the system.

By default, the system reads the first 8 digits of the card track. If the first 8 digits of the card are identical (this may occur on credit cards where the first digits may be, for example, the bank code or the name of the credit card company), it will be necessary to read 8 digits from a different section of the card track.

NOTES:

The card code position definition does not apply to cards in Wiegand Technology.

If the card code position is changed for cards in Magnetic or Barcode technologies the cards previously defined in the system will not work and will need to be redefined in the system

Refer to the card manufacturer or to your RISCO Group service provider for additional details regarding the card code format, if required.

➢ **To access the Card Format menu:**

1. Access the Access Control menu, as described on page 5-132.
2. From the Access Control menu, press **[2]** to access the Card Format menu options. The following display appears:

```
CARD FORMAT:
PLACE:00 (00-37)
```

3. Enter a number (between 00-37) to define the starting card code position. This position determines where the system will start reading the 8-digit code on the card.
4. Press Disarm/ #/6.

9 3 Access Control: Special Code

The Special Code menu enables you to assign codes to the arm cards defined in the system in order to perform operations in addition to opening the doors (such as arming the system).

Users can arm the system only after the Arm Code has been entered, as this code informs the system that its about to be armed. This option is only applicable for readers that include a keypad with the following technology combinations:

- Keypad and proximity
- Keypad and magnetic

➢ **To access the Special Code menu:**

1. Access the Access Control menu, as described on page 5-132.
2. From the Access Control menu, press **[3]** to access the Special Code menu options. The following display appears:

```
SPECIAL CODE:
1) ARM CODE
```

3. Access and configure the parameters in the Special Code menu, as follows:

Access Control: Special Code

Quick Keys	Parameter	Default	Range
9 3 1	**Arm Code**	99	00-99
	Defines an Arm code that enables a user to arm the system. The system will be armed after the defined Exit Delay time period (refer to page 5-3). 1. Press **[1]** and then enter a two-digit Arm code. 2. Press #/Disarm/ #/G.		
9 3 2	**Instant Arm**	98	00-99
	Defines an Arm code that enables a user to arm the system immediately, regardless of the Exit Delay time period. 1. Press **[2]** and then enter a two-digit Arm code. 2. Press #/Disarm/ #/G.		

0 Exit Programming

The Exit Programming menu enables you to save any programming changes made during the current session.

Important: Any changes you make to the programmed parameters are not saved until you exit the Installer Programming Menu correctly.

➢ **To access the Exit Programming menu:**

1. From the main Installer Programming menu, press **[0]**, or press the Status/ ? or Bypass/ → keys until you find the number **[0] Exit Program** option, shown below, and then press #Disarm/ #/6.

```
INSTALLER PROG:
0) EXIT PROGRAM
```

This display is the last option in the main Installer Programming menu.
The following display appears:

```
DO YOU WANT TO
SAVE THE DATA? Y
```

2. Select the appropriate option to save or discard your changes, as follows:
   - Save your changes by pressing #Disarm/ #/6. The following display appears:

```
  PLEASE WAIT
  DATA SAVING..
```

When the data has been saved, the following display appears:

```
  DATA IS SAVED
      READY
```

3. Next, the system will perform a Tamper Test. The following display appears:

```
TESTING:
PLEASE WAIT
```

If a tamper occurs in the system (Bell, box or other) the display will show a list of the tamper faults in the system.
It is advisable to scroll down the list and fix the tamper before exiting the installer programming mode to prevent tamper alarm.

4. After reviewing the tamper fault list press #Disarm/ #/6 key. The following display appears:

```
Quit with
Tamper?          N
```

Selecting **Yes** will result in exiting the installer programming menu and activating a tamper alarm in the system.

When the save function is complete and no tamper fault exists, the keypad displays the regular operation mode

-OR-

- Discard your changes by using the Stay/ 0 key to change the **[Y] YES** to **[N] NO** on the display and then press #/Disarm/ #/6. The following display appears:

```
RELOAD...
PLEASE WAIT...
```

The keypad returns to the normal user display.

Chapter 6: Installer Programming Within the User Functions Mode

This chapter describes the ProSYS programming options and functions located in the user's programming menu that can also be accessed and programmed by an authorized installer after inserting a valid installer code.

The options and functions that can be programmed by an installer appear in the following sections under User Functions:

Installer Programming Conventions in the User Functions Mode

The following pages only describe the options and functions that can be accessed by an Installer via the LCD keypad while in the User Functions mode.

The installer will be prompted to enter a code for each parameter that requires programming. When entering a parameter that is not authorized for installer programming, the keypad will produce three short beeps and the LCD will display the parameter again.

The column headings for the relevant procedures appear as follows:

Column Heading	Description
Quick Keys	A shortcut to program an option. The shortcuts are listed in numerical sequence.
Parameter	The name of the option programmed by the selection. Numbers that appear in square brackets (for example, [1]) indicate an additional level of the quick keys and their description.
Default	The factory default. The default values have been carefully chosen and are suitable for most systems.
Range	Where applicable, the range of possible values.

➢ **To access the User Functions mode:**

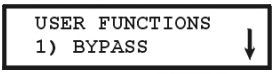
1. When you power up the system, a Please Wait display appears and then the following display appears:

   ```
   PLEASE WAIT…
   ```

   After a brief wait, the keypad displays the regular operation mode, as follows:

   ```
   PARTITION 1
   --:-- ... .. ...
   ```

2. Press (*). The keypad displays the first **User Functions** option, as follows:



3. Use the Bypass/ key to obtain the relevant menu item or use the specified Quick Key combination and your installer code. For example, to access Overload Restore, press:
   * **[2][0][2][Installer Code]** #Disarm/ #/6

2 Activities

After you access the Activities menu from the main User Programming menu, as described in this section, you can access the following parameters:

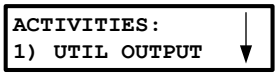
2 0 2 **Overload Restore**, page 6-2

2 0 3 **Check Credit**, page 6-2

2 0 5 **User Call**, page 6-2

➢ **To access the Activities menu:**

- From the main User Programming menu, press **[2]**, or press the Status/ ? or Bypass/ keys until you find the number **[2] Activities** option and then press #Disarm/ #/6. The first submenu (Utility Output) appears:



You are now in the Activities menu and can access the following parameters, as described below.

Activities

Quick Keys	Parameter	Range
2 0 2	**Overload Restore**	
	The Grand Master/Installer /Sub-installer/Manager can use this option to restore the auxiliary power from a power supply (if overload condition is still present, disconnect all loads from AUX. Output).	
2 0 3	**Check Credit (By SMS)**	
	This parameter enables you to receive information by SMS of the credit level in your prepaid SIM card. The ProSYS will send an SMS Credit Level Request message (User menu: Quick Key [4][0][4][1]) to the provider's phone (User menu: Quick Key [4][0][4][2]). Once the SMS is received by the provider, the SIM's credit level is sent back and displayed on the keypad's LCD display or sent to the Follow Me (if defined).	
2 0 5	**User Call**	
	This option is used to receive the SIM credit level using the voice channel. When keying in [2] [0][5][code] followed by #Disarm/ #/6 a dialing tone is received and the keypad functions as a GSM telephone. You can dial and listen to messages as with a regular telephone. To end the call press on the Stay/ button	

Activities

Quick Keys	Parameter	Range

Notes:
1. The outgoing call will always be executed trough the GSM channel.
2. Talking is not optional during the call.
3. This option can be used to get any provider information. The call can be established to any phone number.
4. When using this feature on a non full GSM/GPRS version module the outgoing call will be executed through the PSTN line (if connected to the panel).

3 View

After you access the View menu from the main User Programming menu, as described in this section, you can access the following parameters:

3 1 **Trouble**, page 6-3

3 3 **Not Ready Status**, page 6-3

3 4 **Zone Status**, page 6-4

3 5 **Event Log**, page 6-4

3 6 **Service Info**, page 6-4

➢ **To access the View menu:**

- From the main User Programming menu, press **[3]**, or press the Status/ ? or Bypass/ → keys until you find the number **[3] View** option and then press #Disarm/ #/6. The first submenu (Trouble) appears:

```
VIEW:
1) TROUBLE                ↓
```

You are now in the View menu and can access the required parameters, as described below.

View

Quick Keys	Parameter	Range
3 1	**Trouble**	
	This parameter displays problems detected by the system as indicated by a rapid flashing of the Power LED while the system is in the disarmed state. Refer to the *ProSYS User's Manual* for a list of trouble conditions and their descriptions. If a down arrow appears, other troubles exist. Scroll down using the Bypass/ → key to view the next ones.	
3 3	**Not Ready Status**	
	This parameter displays the partitions' status, the troubles in the system and all the "not ready" zones. Scroll down using the Bypass / → key to view additional entries.	

View

Quick Keys	Parameter	Range
3 4	**Zone Status**	
	This parameter displays all system zones and their current status.	
3 5	**Event Log**	
	This parameter enables viewing the event log of significant system events including date and time. Note that the events log cannot be erased. Scroll down using the Bypass / ↵ key to view the next event log entries.	
	Notes: 1. Press the #/Disarm / #/6 key to view the zone label. 2. Use the Arm / 0 key to move forward 10 events or the Stay / 0 key to move backward 10 events.	
3 6	**Service Info**	
	[1] Installer – displays any previously entered service information. **[2]** System version – displays the system software version.	

4 Maintenance

After you access the Maintenance menu from the main User Programming menu, as described in this section, you can access the following parameters:

4 1 **Keypad Test**, page 6-4

4 2 **Battery Test**, page 6-5

4 9 **Diagnostics**, page 6-5

4 0 **More**, page 6-5

➢ **To access the Maintenance menu:**

1. From the main User Programming menu, press **[4]**, or press the Status / ? or Bypass / ↵ keys until you find the number **[4] Maintenance** option and then press #/Disarm / #/6. A display appears and prompts you to insert your code.
2. Enter your installer code and press #/Disarm / #/6. The following display appears.

```
MAINTENANCE:
1) KEYPAD TEST ↓
```

You are now in the Maintenance menu and can access the required parameters, as described below.

Maintenance

Quick Keys	Parameter	Range
4 1	**Keypad Text**	
	This parameter momentarily tests the keypad indicators and the system's external sounder(s).	

Maintenance

Quick Keys	Parameter	Range
4 2	**Battery Test**	
	This parameter tests the system's standby batteries.	
4 9	**Diagnostics**	
	This menu enables performing diagnostic tests for: **[1]** BUS Zones **[2]** Power Supply **[3]** Siren **[4]** GSM	
4 0	**More**	

	The More menu provides additional parameters.
	1. From the Maintenance menu, press **[0]** and press Disarm/ #/6. The following display appears.
	`MAINTENANCE:`
	`1)WALK TEST ↓`
	2. Access and program the parameters as follows:	

4 0 1	**Walk Test**	

	The walk test enables the installer or the Grand Master to easily test and evaluate the operation of each zone in the system.
	NOTE:
	The difference between performing a walk test with an installer code compared to using the Grand Master code relates to a tamper condition. A tamper during a Grand Master Walk Test will cause an alarm in the system while; a tamper during an Installer Walk Test will only cause a message display.
	1. Make sure the system is disarmed.
	2. Select **[1]** Walk Test. A beep is heard and the following display appears.
	`MAKE WALK TEST`
	`AND HIT ANY KEY`
	Walk throughout the protected area and make sure you test every zone in the system.
	3. When done press any key. A list with the tripped zones during the walk test appears.
	4. Press Disarm/ #/6 to confirm and exit the walk test mode.	

4 0 2	**Accessories Versions**	
	This parameter enables viewing the current versions of ProSYS accessories: **[1]** BUS Zone versions **[2]** Power Supply version **[3]** Siren version **[4]** Proximity Key Reader version **[5]** GSM version	

Quick Keys	Parameter	Range
4 0 3	**Get ACM IP**	
	View the ACM IP address. Required for establishing remote communication for U/D through the IP network.	
4 0 4	**Pre-paid SIM**	
	When using Pre-paid SIM cards use this menu to program the parameters to be able to receive information regarding the SIM card credit level **[1] SMS Message**: When performing manual Credit Level check this message will be sent to the provider in order to receive the SIM card credit. The message is predefined (for example "BILL") by your service provider. **[2] SMS Send Phone**: The provider's phone number to which the credit level SMS message will be sent to, when performing manual credit level check or a service command. **Note:** When using a service command this field is ignored. **[3]** The provider's telephone number from which an automatic SMS credit status message will be sent from. This telephone number has to be defined otherwise the incoming SMS credit status message will be blocked. **Note:** When using a service command, use both the SMS send phone and SMS receiving phone fields to enter the command number (Exampe: *100#).	

9 Miscellaneous : Voice

After you access the Miscellaneous menu from the main User Programming menu, as described in this section, you can access the Voice Message menu.

9 4 Voice Message

This section describes how to play, record and test the spoken messages that ProSYS announces when you access the system from a remote telephone or hear them locally on the premises.

Only the installer or a user with the Grand Master authority level can program the messages.

After you access the Voice Message menu from the main User Programming menu you can access the following submenus:

9 4 2 **Play/Record**, page 6-7

9 4 3 **Test Message**, page 6-10

➢ **To access the Voice Message menu:**

1. From the main User Programming menu, press **[9]**, or press the Status/ ? or Bypass / → keys until you find the number **[9] Maintenance** option and then press #/Disarm/ #/6. A display appears and prompts you to insert your code.

2. Enter your installer code and press (#/Disarm)/(#/6). The following display appears.

```
MISCELLANEOUS:
1) PRINTER CNTRL ↓
```

3. From the Miscellaneous menu, press **[4]** to access Voice Message and press (#/Disarm)/(#/6). The following display appears.

```
VOICE MESSAGE:
1)MSG. STRUCTURE ↓
```

4. You are now in the Voice Message menu and can access the required submenus, as described in the following sections.

Voice Message Types

There are four types of spoken messages that can be heard in ProSYS:

- **Common Message:** User-defined identification of the premises, for example, the address and/or telephone number of the premises. This message is up to 10 seconds long.
- **Partition Message:** User-defined name for the partition in which the event occurred, for example, First floor. The Partition message can be up to 2 seconds long, and is only announced when the Event announcement message concerns a partition.
- **Zone Message:** User-defined name for the zone in which the event occurred, for example, Kitchen. The Zone message can be up to 2 seconds long, and is only announced when the Event announcement message concerns a zone.
- **Utility Output Message:** Recording voice messages for Utility Outputs simplifies the process of remotely operating them by enabling the user to hear a meaningful name, such as Heating, for each Utility Output.

9 4 2 Play/Record

The Play/Record menu provides access to submenus that enable to play and record messages for zones, partitions, utility outputs, and the common message.

➢ **To access the Play/Record menu:**

1. Access the Miscellaneous menu, as described on page 6-6.
2. From the Miscellaneous menu, press **[2]** to access Play/Record and press (#/Disarm)/(#/6). The following display appears.

```
PLAY/RECORD:
1)COMMON MSG.  ↓
```

3. You are now in the Play/Record menu and can access the required voice messages, as described in the following sections.

Quick Keys	Parameter	Range
9 4 2 1	**Common Message**	

1. Press **[1]**. The following display appears:

```
COMMON MSG:
1)PLAY
```

2. Press the required option as follows:

   - Press **[1]** to play the common message.
   - Press **[2]** to record a new message. The following display appears:

```
PRESS # TO START
MESSAGE RECORD
```

   Press Disarm/ #/6 and speak your message into the microphone. The counter in the display counts down the seconds remaining until the recording will stop.

```
PRESS # TO STOP
REC.     TIME:10
```

   Recording stops automatically after 10 seconds. If you finish your message in 9 seconds or less press the Disarm/ #/6 key to stop recording. Note that not pressing Disarm/ #/6 immediately after you finish recording your message might result in a message containing unwanted noises or a silent period.

Quick Keys	Parameter	Range
9 4 2 2	**Partition Message**	

1. Press **[1]**. The following display appears:

```
CHOOSE PARTITION:
1) PARTITION 1
```

2. Select the partition number.
3. Press the required option as follows:

   - Press **[1]** to play the partition message.
   - Press **[2]** to record a new message. The following display appears:

```
PRESS # TO START
MESSAGE RECORD
```

   Press Disarm/ #/6 and speak into the microphone. The counter in the display counts down the seconds remaining until the recording will stop. Recording stops automatically after 2 seconds. If you finish your message in less than 2 seconds press Disarm/ #/6 to stop recording.
   The default partition messages for partition 1 to Partition 8 are **Partition 1** to **Partition 8** respectively.

Quick Keys	Parameter	Range

9 4 2 3 **Zone Message**

1. Press **[2]**. The following display appears:

```
ZONE#:01     (01-32)
ZONE 001
```

2. Select the zone number and press Disarm/ #/6.
3. Press the required option as follows:
   - Press **[1]** to play the zone message.
   - Press **[2]** to record a new message. The following display appears:

```
PRESS # TO START
MESSAGE RECORD
```

   Press Disarm/ #/6 and speak into the microphone. The counter in the display counts down the seconds remaining until the recording will stop. Recording stops automatically after 2 seconds. If you finish your message in less than 2 seconds press Disarm/ #/6 to stop recording.
   The default partition messages for zones 1 to 32 are **Zone 1** to **Zone 32** respectively.

9 4 2 4 **Utility Output Message**

Recording voice messages for Utility Outputs simplifies the process of remotely operating them by enabling the user to hear a meaningful name, such as Heating, for each Utility Output.

This procedure involves:

- Selecting a Utility Output voice message.
- Assigning an appliance to that message.
- Recording a name for the selected appliance.

To record an utility output message:

1. Press **[4]**. The following display appears:

```
UO MESSAGE:
1) UO MESSAGE 1
```

2. Each option in the UO Message menu represents a message for a utility output. Select the number to which you want to assign an appliance and press Disarm/ #/6. The following display appears:

```
CHOOSE UO:
01)OUTPUT 01
```

3. The options in the Choose UO menu represent the Follow Code utility outputs. Select the number representing the appropriate output for the message selected above or select 00 for no ouput to be assigned to a message. Press Disarm/ #/6.

4. Press the required option as follows:

- Press **[1]** to play the utility output message.
- Press **[2]** to record a new message. The following display appears:

```
PRESS # TO START
MESSAGE RECORD
```

Press (#/Disarm) / (#/6) and speak into the microphone. The counter in the display counts down the seconds remaining until the recording will stop. Recording stops automatically after 2 seconds. If you finish your message in less than 2 seconds press (#/Disarm) / (#/6) to stop recording. The default utility output messages for utility outputs 1 to 8 are **Utility Output 1** to **Utility Output 8** respectively.

9 4 3 Test Message Locally

The Test Message locally option enables you to verify the operation of ProSYS's voice playback capabilities.

➢ **To perform a local test message:**

1. Access the Miscellaneous menu, as described on page 6-6.
2. From the Miscellaneous menu, press **[3]** to access Test Message and press (#/Disarm) / (#/6). The following display appears.

```
TEST MESSAGE:
1)SEND MESSAGE ↓
```

3. Press **[2]**. The message "Test Message" is repeated continuously for 90 seconds and the following display appears:

```
PRESS ANY KEY TO
STOP VM TEST
```

4. Press any key to stop the test message.

Appendix A: Technical Data

Main Panel			
Input Power	16.5 Volts AC @ 40 Volt-Amps (VA) (via integral transformer)		
Current Consumption	60 mA, typical / 70 mA, maximum		
Rechargeable Standby Battery	12 Volts up to 17 Amp-Hours (AH), typical		
Power Outputs:			
❖ **Auxiliary Power**	12 Volts DC @ 600 mA, maximum (from all AUX terminals)		
❖ **Bell/LS (External) Sounder Output**	12 Volts DC @ 900 mA, maximum		
Programmable Voltage (Utility) Output	**UO1:** Relay (programmable output) (3 Amps) **UO2:** 500 mA transistor **UO3-UO6:** Open Collector Active Pull-Down, 70 mA, max.		
Cabinet Dimensions	37.5 cm x 33 cm x 9.8 cm		
Main Board Dimensions	20 cm x 11.5 cm x 6.5 cm		
Fuses	**F3**	Responsible for: Battery Power	3.0 A
	AUX	Automatic fuse	
	BELL	Automatic fuse	
Keypads (8 LED/16 LED/KCL/KCLP)			
Current Consumption	8 LED	75 mA maximum	
	16 LED	75 mA maximum	
	KCL	100 mA maximum	
	Proximity KCL	160 mA maximum	
Main Panel Connection	4-wire BUS, up to 300 m from Main Panel		
Dimensions	16.2 cm x 12.2 cm x 3 cm		
Touchscreen Keypads			
Current Consumption	ProSYS KP	30 mA typical / 180 mA maximum	
	ProSYS KPP (with proximity)	30 mA typical / 210 mA maximum	
Main Panel Connection	4-wire BUS, up to 300 m from Main Panel		
Dimensions	21 cm x 15.2 cm x 2 cm		
Zone Expansion Module: 8-Zone			
Current Consumption	25 mA, typical / 45 mA, maximum		
Main Panel Connection	4-wire BUS, up to 300 m from Main Panel		
Dimensions	10.5 cm x 6.6 cm x 1.8 cm		

Zone Expansion Module: 16-Zone	
Current Consumption	27 mA, typical / 45 mA, maximum
Main Panel Connection	4-wire BUS, up to 300 m from Main Panel
Dimensions	16.5 cm x 6.6 cm x 1.8 cm
BUS Zone Expansion Module	
Current Consumption	20 mA, typical
Main Panel Connection	4-wire BUS, up to 300 m from Main Panel
Dimensions	10.5 cm x 6.6 cm x 1.8 cm
Wireless Expansion Modules 8-/16-Zone	
Current Consumption	40 mA , maximum
Frequency	868.6-868.7 MHz (narrowband operation in EU) or 433.92 MHz
Dimensions	14.5 cm x 9 cm x 3.8 cm
Utility Output Expansion Module: 4-Output	
Current Consumption	25 mA, typical / 140 mA, maximum
Contacts	4 Form C (SPDT) Relays Contact rating: 5 A / 24V DC
Main Panel Connection	4-wire BUS, up to 300 m from Main Panel
Dimensions	10.5 cm x 6.6 cm x 2.2 cm
Utility Output Expansion Module: 8-Output	
Current Consumption	25 mA, typical / 30 mA, maximum
Contacts	Open Collector, Active Pull-Down, 70 mA, maximum
Main Panel Connection	4-wire BUS, up to 300 m from Main Panel
Dimensions	10.5 cm x 6.6 cm x 1.8 cm
1.5 Power Supply Expansion Module	
Input Power	16.5 Volts AC @ 40 VA (via transformer)
Max Current Consumption	180mA
Rechargeable Standby Battery	12 Volts up to 17 Amp-Hours (AH), typical
Maximum charging time	24 hours
Power Outputs:	**Auxiliary Power**: 12 Volts DC @ up to 1.5A*
Bell/LS (External)	**Bell/LS (External) Sounder Output**:12 Volts DC @ 900 mA, maximum *: Total current Bell+Aux=1.5A
Fuses	**F1:** Battery power 3.0 A **F2:** Auxiliary power 2.0 A **F3:** Bell/loudspeaker power 1.0 A
Main Panel Connection	4-wire BUS, up to 300 m from Main Panel
Dimensions	9.0 cm x 9.0 cm x 6.7 cm

3A Switched Power Supply Expansion Module	
Input Power	16.5VAC @ 50VA (via 230VAC/16.5VAC/50Hz transformer).
Rechargeable Standby Battery	12V Up To 21 Amp-Hours (AH)
Power Outputs:	**Auxiliary Output**: 3A @13VDC
Bell/LS (External)	**Bell/LS (External) Sounder Output**: 1.7A @13VDC
	Overload Protection: Automatic Electronic Protection
On board utility Outputs	2 relays, 12VDC @ 3A max Dry Contact Relays
Main Panel Connection	4-wire BUS, up to 300 m from Main Panel
Dimensions	90mm x110mm x 30mm
Event Log Expansion Module	
Current Consumption	30 mA maximum
Main Panel Connection	4-wire BUS, up to 300 m from Main Panel
Dimensions	10.5 cm x 6.6 cm x 1.8 cm
Printer Module	
Current Consumption	10 mA, maximum
Main Panel Connection	4-wire BUS, up to 300 m from Main Panel
Dimensions	6.2 cm x 5.3 cm x 1.6 cm
X-10 Transmitter Module	
Current Consumption	30 mA maximum
Main Panel Connection	4-wire BUS, up to 300 m from Main Panel
Dimensions	10.5 cm x 6.6 cm x 1.8 cm
Access Control Module	
Input Power	13.8V DC + 10%
Current Consumption	100 mA maximum
Main Panel Connection	4-wire BUS RS-485, up to 300 m from the Main Panel
Readers Consumption	5V / 150 mA maximum
Dimensions	16.5 cm x 8.8 cm x 2.1 cm
Relay	24V DC / 1 A maximum
Advanced Voice Module	
Current Consumption (standby/active speaking)	38 mA / 60 mA
Audio Signal	Max = 5Vpp / Max = 2V
Dimensions	16.5 cm x 6.6 cm x 1.8 cm

Listen In/ Message Unit	
Input Power	8V DC to 14V DC
Current Consumption	9 mA (standby) / 60 mA (active speaking - normal volume) / 130 mA (active speaking - full volume)
Audio Signal	Vin max = 2.5V pp / Vout max = 4V pp
Dimensions	6.2 cm x 11.3 cm x 3.2 cm
Voice Messages Module	
Input Power	12V DC
Current Consumption	6mA typique / 26mA maximum
Dimensions	6.6 cm x 6.6 cm x 1.8 cm
Proximity Key Reader	
Input Power	13.8VDC ±10%
Current Consumption	70 mA, typical / 180 mA maximum
Main Panel Connection	4-wire BUS, up to 1000 ft (300 m)
Dimensions	40 x 43,6 x 22 mm
GSM/GPRS Communication Module	
Input Power	13.8VDC ±10%
Current Consumption	During Communication - 300mA, During Standby - 70mA
Battery (Not supplied)	Lead Acid (rechargeable), 12VDC/1.2Ah
Main Panel Connection	4-wire BUS, up to (300 m)
Dimensions (in metal casing) Width x Height x Depth	185 x 275 x 65 mm With antenna installed: 185 x 275 x 65 mm
Main Board Dimensions	82 mm x 160 mm x 25 mm
Advanced Communication Module (ACM)	
Input Power	9-16 VDC
Current Consumption	~300mA@13VDC
Main Panel Connection	4-wire BUS, 300 m
Dimensions	180mmX85mm
Fast PSTN Modem 2400 BPS	
Input power	13.8VDC ±10%
Current Consumption	100 mA maximum
Main Panel Connection	4-wire BUS, 300 m
Dimensions	10.5 cm x 6.6 cm

Appendix B: ProSYS Accessories

Keypads	Description
ProSYS KL08	8-LED Keypad (LEDS and Keys text indication)
ProSYS KL16	16-LED Keypad (LEDS and Keys text indication)
ProSYS KCL	LCD Keypad (LEDS and Keys text indication)
ProSYS KCLP	Proximity LCD Keypad+ 2 key tags (LEDS and Keys text indication)
ProSYS KTAG	Proximity key tags (x10)
ProSYS KP	Touchscreen keypad
ProSYS KPP	Touchscreen keypad with proximity (13.56 MHz)
RP200KT	Proximity tags for ProSYS KPP (13.56 MHz)
Zone Expanders	**Description**
ProSYS EZ8	8 Zone Expansion Module, DEOL termination
ProSYS EZ16	16 Zone Expansion Module , DEOL termination
ProSYS EZ8F	8 Zone Expansion Module with FAST and extended loop response definitions
ProSYS EZ8G3	8 Zone Expansion Module , TEOL termination
ProSYS EZ16G3	16 Zone Expansion Module , TEOL termination
ProSYS BZE	Bus Zone Expander
Wireless Zone Expanders	**Description**
ProSYS EW08	8 Wireless Zone Expansion 868 MHz or 433 MHz
ProSYS EW16	16 Wireless Zone Expansion , 868 MHz or 433 MHz
ProSYS EWR	Wireless Repeater 868 MHz or 433 MHz
Wireless Transmitters 868 MHz or 433 MHz	**Description**
iWISE T92	Wireless PIR detector
iWISE T92P	Wireless PIR detector with pet immunity
WL T33S	Wireless smoke detector
WL T72C	Wireless door contact
WL T72M	Wireless door contact + magnet
WL T72P	Door / Shutter Wireless contact
WL T72X	2 channel Shutter/Universal
WL T4RC	4-button rolling code keyfob
WL T54	4-button 3 channel key fob transmitter
WL T4Z	4-channel 4 channel key fob button transmitter
WL T50	Wireless pendant panic button
WL T51	Wristband panic transmitter,
WL T52	Wireless 2 panic button keyfob
WL T6S	Wireless Shock Detector White or Brown casing
WL T6F	Wireless flood Detector

WL T6CO	Wirless CO Detector
WL T6G	Wirless Glass Break Detector
WL T6GS	Wirless GAS Detector
WL T312	Wirless WatcHOUT
WisDom KWL	Wirless Keypad

Power Supply Expanders	**Description**
ProSYS 1.5APS	1.5 Power Supply (PCB only)
ProSYS 1.5APSB	1.5 Power Supply inside medium Metal box + Tamper (RP296EPSPUKA)
ProSYS 1.5APSB	1.5 Power Supply inside large metal box + Tamper (RP128EPSP00A)
ProSYS 3APS	3A Switched Power Supply (PCB only)
ProSYS 3APSB	3A Switched Power Supply inside midium Metal box + Tamper (RP128EPSPUKA)
ProSYS 3APSB	3A Switched Power Supply inside large metal box + Tamper + transformer (RP128PSPSEUA)
ProSYS 3APSB	3A Switched Power Supply inside large metal box + Tamper (No transformer, RP128PSPSUSA)

Programmable Output Devices	**Description**
ProSYS E04	4 relay utility output expansion module
ProSYS E08	4 transistor utility output expansion module

Printer Module	**Description**
ProSYS PRT	Printer module

Access Control	**Description**
ProSYS EAC	Access Control Module
ProSYS EAR100	Proximity reader
ProSYS EAR200	Proximity reader + keypad
ProSYS EAC100	Proximity card
ProSYS EAC200	Thin proximity card
ProSYS EAK200	Proximity key tag

Proximity Key Reader	**Description**
ProSYS PKX	Proximity Key Reader (xx=reader type)
ProSYS KTAG	10 Keytags for proxmity keypad (125 KHz)

Voice Module	**Description**
ProSYS EV	Advanced voice module
200VC	Voice Module (3 messages)

Message Box Unit	**Description**
ProSYS EVM	Listen and speak-in module with message box
ProSYS EVL	Listen and speak-in module

X-10 Module	**Description**
ProSYS EXT	X-10 Transmitter Module

Event Log Expander	Description
ProSYS EL5	Event log expander to 512 events
ProSYS EL9	Event log expander to 999 events
Advanced Communication Module	**Description**
ACM AA01	ACM (RS485 and Ethernet interface) + modem
ACM AB01	ACM (RS485 and Ethernet interface)
GSM/GPRS Module	**Description**
AGM 128GSX	Bus Full Version in metal box
AGM 128GSM	Bus GPRS Version(SMS/GPRS/Data) in Metal box
Fast PSTN Modem 2400 BPS	**Description**
ProSYS MD2400	Fast PSTN external modem 2400 BPS
IP/GSM Receiver	**Description**
IP Receiver	GSM/IP Receiver Software
External Sounder	**Description**
ProSound 200P	Prosound external sounder double skin with anti foam protection
ProSound 200	Prosound external sounder double skin
Upload / Downlaod	**Description**
ProSYS EE	Program Transfer Module
ProSYS EBA	RS 232/485 Local U/D Adaptor
ProSYS EUSB	USB/485 Local U/D Adaptor (includes 9/25 converter + RP296EBA000A
ProSYS ECON	USB converter + 9/25 converter
Bus Detectors	**Description**
WatchOUT 315DT	WatchOUT DT +
WatchIN 325DT	WatchIN DT + swivel
WatchOUT 312PR	WatchOUT PIR + swivel
Ind. LuNAR 200DTG3	Industrial LuNAR with ACT(Grade 3) & Green Line
iWISE 815DTBG3	iWISE DT AM Grade 3 , 15m (50 ft)
iWISE 825DTBG3	iWISE DT AM Grade 3 , 25m (82 ft)
iWISE 800QBG3	iWISE Quad 15m (50 ft) AM Grade 3
iWISE 815DTBG2	iWISE DT AM Grade 2 , 15m (50 ft)
iWISE 825DTBG2	iWISE DT AM Grade 2 , 25m (82 ft)
iWISE 800QBG2	iWISE Quad 15m (50 ft) AM Grade 2
Demonstration Board	**Description**
ProSYS DBL	ProSYS Laptop demo board
Boxes	**Description**
ProSYS B2	ProSYS Metal box + tamper
AGM B4	GSM Metal box+ tamper for accessories
ProSYS B5	ProSYS plastic accessories + tamper

Appendix C: Report Codes

This appendix provides descriptions of all the Report Codes sent to the Monitoring Station.

Report Code Programming for SESCOA SUPERFAST (03B1)

PROGRAMMED DIGITS	SESCOA CODE	EVENT REPORTING EVENT (RECOMMENDED)	ALPHA CODE
3A	DBD	Identified Opening	IOP
31	DCD	Identified Closing	ICL
32	9B9	Opening (Not Identified)	OP
33	9C9	Closing (Not Identified)	CL
34	CDA	24-Hour Report	24H
35	BAB	AC Fail	AC
36	EAB	AC Restoral	EAC
37	AEA	Low Battery	LO
38	EEA	Low Bat. Rest	ELO
39	DFF	Bell Trouble	dBL
4A	EFF	Bell Trouble Rest	EBL
41	DEE	Phone Trouble	dPL
42	EEE	Phone Trouble Rest	EPL
43	DDD	Duress	dU
44	EBA	Opening Out of Window	EOP
45	ECA	Closing Out of Window	ECL
46	CAC	Test	CH
47	Axx	Alarm	Axx
48	Dxx	Trouble	dxx
49	Exx	Restore	Exx
5A	Fxx	Alarm + Rest	Fxx

New Codes

If a new code, not supported by the Main Panel is required, it can be added to the list using the 'SPECIAL' programming item (up to 30 additional codes).

Report Code Programming for ADEMCO POINT (CONTACT) ID (0420)

PROGRAMMED DIGITS	ADEMCO CODE	EVENT REPORTING EVENT (RECOMMENDED)
3A	100	Medical Key
31	110	Fire Alarm
32	111	Smoke
33	115	Fire Key
34	120	Panic Key
35	121	Duress
36	122	Silent Alarm
37	123	Audible Alarm
38	130	Burglary
39	131	Perimeter
4A	132	Interior
41	133	24 Hour
42	134	Entry/Exit
43	135	Day/Night
44	136	Outdoor
45	137	Tamper
46	140	General Alarm
47	144	Sensor Tamper
48	145	Accessory Tamper
49	150	24 Hour Non-Burg.
5A	155	Foil Break
51	156	Day Trouble
52	300	Main Aux Trouble
53	301	Main AC Trouble
54	302	Main Battery Trouble
55	305	System Reset
56	321	Main Bell Trouble
57	330	Power Supply Trouble
58	333	BUS Communication Trouble
59	351	Main Phone Trouble
6A	373	Fire Trouble
61	380	Sensor Trouble

PROGRAMMED DIGITS	ADEMCO CODE	EVENT REPORTING EVENT (RECOMMENDED)
62	400	Arm/Disarm Out Of Window
63	401	User Arm/Disarm (with User ID)
64	402	User Arm/Disarm (Group No. + User ID)
65	403	Auto Arm/Disarm
66	407	Remote Arm/Disarm
67	408	Quick Arm
68	409	Keyswitch Arm/Disarm
69	411	Callback Request
7A	421	False Security Code
71	570	Zone Bypass
72	574	Forced Arm
73	602	Communication Test
74	143	Exp. Module Fail
75	307	Self-test Fail
76	334	Repeater Fail
77	336	Local Printer Fail
78	355	Loss of Radio Supervision
79	381	Loss of Supervision RF
8A	384	Rx Transmitter Low Bat
81	406	Cancel
84	606	Listen-In to Follow
85	139	Confirmed alarm
86	312	Power supply overload
87	999	MS Polling
--	626	Clock/date trouble
--	625	Clock /date trouble restore
--	344	Receiver jamming trouble / restore
--	627	Program mode entry
--	628	Program mode exit

Report Code Programming for SIA (0700)

PROGRAMMED DIGITS	SIA EVENT CODE	EVENT
1E	AR	AC Restoral
1F	AT	AC Trouble
20	CJ	Dummy
21	BA	Burglary Alarm
22	BC	Burglary Cancelled
23	BH	Burglary Alarm Restore
24	BJ	Burglary Trouble Restore
25	BT	Burglary Trouble
26	BX	Burglary Test
27	CA	Automatic Closing ('+ Area Number')
28	CF	Forced Closing
29	CG	Close Area ('System has been partly armed')
2A	CJ	Late Close
2B	CK	Early Close
2C	CL	Closing Report
2D	CP	Automatic Closing ('+ User Number')
2E	CS	Closing Keyswitch
2F	CZ	Point Closing
30	FT	Dummy
31	DD	Access Denied – Unknown Code
32	DT	Access Trouble
33	ER	Expansion Device Restoral
34	ET	Expansion Device Trouble
35	FA	Fire Alarm
36	FB	Fire Bypass
37	FC	Fire Cancel
38	FH	Fire Alarm Restoral
39	FJ	Fire Trouble Restoral
3A	FT	Fire Trouble
3B	FU	Fire Unbypass
3C	HA	Holdup Alarm ('Duress')
3D	HH	Holdup Alarm ('Duress') Restoral
3E	JA	User Code Tamper (False Code)
3F	JL	Event Logger Threshold
40	MH	Dummy
41	JO	Event Logger Overflow
42	JT	Time Changed
43	LB	Local Programming

PROGRAMMED DIGITS	SIA EVENT CODE	EVENT
44	LD	Local Programming Denied
45	LR	Phone Line Restoral
46	LS	Local Program Success
47	LT	Phone Line Trouble
48	LX	Local Programming Ended
49	MA	Medical Alarm
4A	MH	Medical Alarm Restore
4B	MJ	Medical Trouble Restore
4C	MT	Medical Trouble
4D	OA	Automatic Opening
4E	OC	Cancel Report
4F	OG	Open Area ('+ Area Number')
50	PT	Dummy
51	OJ	Late Open
52	OK	Early Open
53	OP	Opening Report
54	OR	Disarm from Alarm
55	OS	Opening Keyswitch
56	OZ	Point Opening ('+ Zone or Point')
57	PA	Panic Alarm
58	PH	Panic Alarm Restore
59	PJ	Panic Trouble Restore
5A	PT	Panic Trouble
5B	QA	Emergency Alarm
5C	QH	Emergency Alarm Restore
5D	QJ	Emergency Trouble Restore
5E	QT	Emergency Trouble
5F	RB	Remote Program Begin
60	UR	Dummy
61	RP	Automatic Communication Test
62	RR	Power Up
63	TA	Tamper Alarm
64	TR	Tamper Restoral
65	TX	Communication Test ('Manual or Automatic')
66	UA	Untyped Zone Alarm
67	UB	Untyped Zone Bypass
68	UH	Untyped Alarm Restore
69	UJ	Untyped Trouble Restore
6A	UR	Untyped Zone Restoral
6B	UT	Untyped Zone Trouble

PROGRAMMED DIGITS	SIA EVENT CODE	EVENT
6C	UU	Untyped Zone Unbypass
6D	VR	Printer Restore
6E	VT	Printer Trouble
6F	XH	RF Interference Restoral
70	YM	Dummy
71	XJ	RF Receiver Tamper Restoral
72	XQ	RF Interface
73	XR	Transmitter Battery Restoral
74	XS	RF Receiver Tamper
75	XT	Transmitter Battery Trouble
76	YA	Bell Trouble
77	YC	Receiver/Transmitter Communication Fail
78	YH	Bell Restoral
79	YK	Communication Restoral
7A	YM	System (Transmitter/Receiver) Battery Missing
7B	YP	Power Supply Trouble (Transmitter/Receiver)
7C	YQ	Power Supply Restored (Transmitter/Receiver)
7D	YR	System Battery Restoral
7E	YS	Communication Trouble (Transmitter/Receiver)
7F	YT	System Battery Trouble
80	BZ	Dummy
81	BZ	Missing Supervision
82	BV	Burglar Verification
84	LF	Listen-In Begin
85	IA	GSM Trouble
86	IR	GSM Trouble Restore
87	ZZ	MS Polling

New Codes

If a new code, not supported by the Main Panel is required, it can be added to the list using the 'SPECIAL' programming item (up to 30 additional codes).

Appendix D: Event Log Messages

This appendix provides descriptions of all the Event Log messages.

EVENT MESSAGE	DESCRIPTION
AC LOW PS=X	Loss of AC power from power supply ID=X
AC RST PS=X	AC power restore on power supply ID=X
ACM: DHCP ERROR	Fail to acquire an IP address from the DHCP server
ACM: DHCP OK	Success to acquire an IP address from the DHCP server
ACM: DOWNLOAD ERR	ACM failed to download an upgrade image from upgrade server
ACM: DOWNLOAD OK	ACM successfully downloaded an upgrade image from upgrade server
ACM:EVENT LOG ER	ACM failed to make an event log
ACM:EVENT LOG OK	ACM succeeded to make an event log
ACM:HARDWARE ERR	Internal hardware error in the ACM
ACM:HARDWARE OK	No hardware error in the ACM
ACM:MAIL ERROR	ACM failed to send an Email
ACM:MAIL OK	ACM successfully send an Email
ACM:MS=X ERROR	Communication failure to MS X. The ACM failed to report to MS X
ACM:MS=X OK	Communication to MS X is OK
ACM:NETWORK ERR	ACM failed to connect to network (Ethernet)
ACM:NETWORK OK	ACM successfully connected to network (Ethernet)
ACM:NTP ERROR	ACM failed to acquire time data from the time server
ACM:NTP OK	ACM successfully acquired time data from the time server
ACM:UPGRADE ERR	Remote software upgrade of the ACM failed
ACM:UPGRADE OK	Remote software upgrade of the ACM succeeded
ACTIVAT UO=X	UO X activation (UO defined as Follow-Me code)
ACTV UO=XX WB=YY	A UO has been activated by wireless keyfob YY
ALARM Z=XXX	Alarm in zone XXX
ALR ABRT P=X	Alarm aborted on Partition X
AMPRX DTCT Z=XXX	Anti mask proximity detection on BUS zone XXX
AMPRX RSTR Z=XXX	Anti mask proximity detection restore on BUS zone XXX
ARM A:P=X C=YY	Group A on partition X is armed by user YY
ARM A:P=X WB=YY	Group A on partition X is set by wireless keyfob YY
ARM B:P=X C=YY	Group B on Partition X is armed by user YY
ARM B:P=X WB=YY	Group B on partition X is set by wireless keyfob YY
ARM C:P=X C=YY	Group C on Partition X is armed by user YY
ARM C:P=X WB=YY	Group C on Partition X is set by wireless keyfob YY

EVENT MESSAGE	DESCRIPTION
ARM D:P=X C=YY	Group D on Partition X is armed by user YY
ARM D:P=X WB=YY	Group D on partition X is set by wireless keyfob YY
ARM FAIL P=X	Fail to Arm Partition X by Guard due to not ready zones
ARM:P=X C=YY	Partition X armed by user YY
ARM:P=X WB=YY	Partition X armed by wirelesskeyfob YY
AUT TST FAIL	Failure of zone self-test
AUTO TEST OK	Automatic zone self-test OK
AUX RS PS=X	Restore of Aux power on power supply ID=X
AUX RS ZE=X	Restore of S. Aux power on zone expander X
AUX TRBL RS S=X	Auxiliary trouble restore on the siren ID=X
AUX TRBL SIREN=X	Auxiliary trouble on the siren ID=X
BAT LOAD RS S=X	Battery load trouble restore from siren ID=X
BAT LOAD SIREN=X	Battery load trouble from siren ID=X
BAT RST PS=X	Low battery trouble restore from power supply ID=X
BELL RS PS=X	Bell trouble restore in power supply ID=X
BELL TAMPER	Bell tamper alarm
BELL TMP RS	Bell tamper alarm restore
BOX TAMPER	Box tamper alarm
BOX TMP RS	Box tamper alarm restore
BYPASS BOX+BELL	Bell and box tampers are bypassed
BYPASS ZN=XXX	Zone XXX is bypassed
CHARGE CURR S=X	Battery charging trouble in siren ID=X
CHNG CODE=XX	Changing user code by user XX
CHNG FM=XX	Changing MS telephone number X
CHNG PROG=XX	Change in the Access Control definitions of daily program, weekly program or access group. Each change will appear in 2 events. The first XX defines the quick key function. The second XX defines the program number (for example, Access Group 04)
CHRG CURR RS S=X	Battery charging trouble restore in siren ID=X
CLK NOT SET	Clock is not set
CLK SET C=XX	Time defined by user No. XX
COM OK AC=X	Bus communication OK with Access Control module X
COM OK ACM	Bus communication OK with the ACM module
COM OK KP=XX	Bus communication restore with keypad ID=XX
COM OK KR=XX	Bus communication OK with Proximity Key Reader XX
COM OK PRN=X	Bus communication OK with the printer module X
COM OK VOICE	Bus communication OK with Advanced Voice module

EVENT MESSAGE	DESCRIPTION
COM OK WBA=X	Bus communication OK with the wireless keyfob module ID=X
COMM OK SIREN=X	Bus communication OK with siren ID=X
COMM OK PS=X	Bus communication restore with power supply expander ID=X
COMM OK UO=X	Bus communication restore with UO expander ID=X
COMM OK Z=XXX	Bus communication OK with BUS zone XXX
COMM OK ZE=X	Bus communication restore with zone expander ID=X
COMM. OK GSM	GSM communication is OK
CP RESET	The control panel has reset
DAT SET C=XX	Date defined by user No. XX
DAY A:P=X	Arm by scheduler of group A on partition X
DAY ARM:P=X	Daily Arm on Partition X
DAY B:P=X	Arm by scheduler of group B on partition X
DAY C:P=X	Arm by scheduler of group C on partition X
DAY D:P=X	Arm by scheduler of group D on partition X
DAY DIS:P=X	Daily Disarm on Partition X
DAY HOM:P=X	Daily Stay or Group Arming in Partition X
DC RESTORE Z=XXX	DC trouble restore in BUS zone XXX
DC TROUBLE Z=XXX	DC trouble in BUS zone XXX
DIS: P=X C=YY	Partition X disarmed by user YY
DIS:P=X WB=YY	Partition X disarmed by wireless keyfob YY
DOOR=XX: AUTO	Door XX is defined to Automatic mode operation
DOOR=XX: CLOSED	Door XX is defined to Always Closed mode operation
DOOR=XX: OPEN	Door XX is defined to Always Open mode operation
DURESS C=XX	Duress alarm from user No. XX
DUST RST Z=XXX	Dust trouble restore from WatchOUT DT BUS zone XXX
DUST Z=XXX	Dust trouble from WatchOUT DT BUS zone XXX
EE AC.UPLOAD	Load new parameters from PTM accessory
ELOG:COMM OK	Bus communication restore with event logger expander ID=X
ELOG:NO COMM	Bus communication failure with event logger expander ID=X
ENTER PROGRM	Entering Installer programming from keypad or UD software
EXIT PROGRAM	Exiting Installer programming from keypad or UD software
F.TR OK Z=XXX	Trouble restore in Fire zone XXX
F.TRBL Z=XXX	Trouble in Fire zone XXX
FALSE CODE KP=XX	False code due to 3 incorrect keypad attempts
FALSE CODE KR=XX	False code due to 3 incorrect Access Control attempts
FALSE REST.KR=XX	False code is restored for key reader

EVENT MESSAGE	DESCRIPTION
FAULT Z=XXX	Trouble in zone XXX (TEOL zone or BUS zone input TEOL)
FIRE Z=XXX	Fire alarm in zone XXX
FIRE KP=XX	Fire alarm from keypad (ID=XX) (keys 3 & 4)
FOIL Z=XXX	Trouble in foil (Day) zone XXX
FOIL OK Z=XXX	Restore in foil (Day) zone XXX
FORCED P=X	Partition X is force armed
FOUND Z=XXX	Wireless zone found, zone XXX
FUNC=XX C=YY	Quick key function XX by user YY
GSM:BATTERY OK	GSM battery OK
GSM:GPRS PW ERR	Authentication password is incorrect
GSM:GPRS PW OK	Authentication password is correct
GSM:IP OK	IP connectivity OK
GSM:IP TROUBLE	IP connectivity trouble
GSM:LOW BATTERY	Low battery power from the GSM back-up battery (below 11VDC)
GSM:MAINS OK	Main power to the GSM/GPRS module is OK
GSM:MDL COMM. OK	Internal GSM/GPRS BUS Module trouble restore
GSM:MODULE COMM	Internal GSM/GPRS BUS Module trouble
GSM:MS OK	GPRS communication to the MS is OK
GSM:MS TROUBLE	GPRS communication failure to the MS
GSM:NET AVAIL.	GSM Network is not available.
GSM:NET AVAIL.OK	GSM Network is available.
GSM:NET QUAL..OK	The GSM RSSI level is OK (according to the defined level)
GSM:NET QUALITY	The GSM RSSI level is low(according to the defined level)
GSM:NO MAINS	No power from mains
GSM:NO PSTN	No PSTN line to the GSM module
GSM:PIN CODE ERR	PIN code entered is incorrect
GSM:PIN CODE OK	PIN code entered is correct.
GSM:PSTN OK	PSTN available
GSM:PUK CODE ERR	PUK Code required
GSM:PUK CODE OK	PUK Code is OK
GSM:SIM OK	SIM card is available.
GSM:SIM TROUBLE	SIM Card missing or not properly placed.
GSM:TAMPER	GSM box tamper condition
GSM:TAMPER OK	GSM/GPRS Box tamper restore
HOM:P=X C=YY	Partition X is armed in Stay mode by user YY
HOME:P=X WB=YY	Partition X is home armed using keyfob YY

EVENT MESSAGE	DESCRIPTION
IR RESTORE Z=XXX	Trouble restore in the IR channel of BUS zone XXX
IR TROUBLE Z=XXX	Trouble in the IR channel of BUS zone XXX
JAMM. WBA=X	Jamming in wireless keyfob expander ID=X
JAMMING ZE=X	Wireless jamming from zone expander ID=X
KSW A:Z=XXX P=Y	Group A in partition Y is armed by keyswitch zone XXX
KSW ARM:Z=XXX P=Y	Partition Y is armed by keyswitch zone XXX
KSW B:Z=XXX P=Y	Group B in partition Y is armed by keyswitch zone XXX
KSW C:Z=XXX P=Y	Group C in partition Y is armed by keyswitch zone XXX
KSW D:Z=XXX P=Y	Group D in partition Y is armed by keyswitch zone XXX
KSW DIS:Z=XXX P=Y	Partition Y is disarmed by keyswitch zone XXX
L.BAT RSTR WB=XX	Low battery trouble restored from wireless keyfob XX
LB RSTR Z=XXX	Low battery restore from wireless zone XXX
LOST Z=XXX	Wireless zone lost, zone XXX
LOW BAT PS=X	Low battery trouble from power supply ID=X
LOW BAT RS S=X	Low battery trouble restore from siren ID=X
LOW BAT SIREN=X	Low battery trouble from siren ID=X
LOW BAT WB=XX	Low battery trouble from wireless keyfob XX
LOW BAT Z=XXX	Low battery trouble from wireless zone XXX
MAIN BELL RS	Bell trouble restore in Main Panel
MAIN:AC RSTR	AC power restore on Main Panel
MAIN:AUX RST	Restore of Aux power on Main Panel
MAIN:BAT RST	Low battery trouble restore from the Main Panel
MAIN:LOW AC	Loss of AC power from the Main Panel
MAIN:LOW BAT	Low battery trouble from the Main Panel
MAIN:NO AUX	Failure in the Aux power on Main Panel
MAIN:NO BELL	Bell trouble in Main Panel
MASKED Z=XXX	Anti mask trouble from zone XXX
MS=X CALL ERROR	Communication fail trouble to MS phone No. X
MS=X RESTORE	Communication fail trouble restore to MS phone No. X
MW RESTORE Z=XXX	Trouble restore in the MW channel of BUZ zone XXX
MW TROUBLE Z=XXX	Trouble in the MW channel of BUZ zone XXX
NEXT ARM:P=X	Partition X armed in Next Arm mode
NEXT DIS:P=X	Partition X disarmed in Next Disarm mode
NO AUX PS=X	Failure in the Aux power on power supply ID=X
NO AUX ZE=X	Failure in the S. Aux power on zone expander X
NO BELL PS=X	Bell trouble in power supply ID=X

EVENT MESSAGE	DESCRIPTION
NO COM AC=X	Bus communication failure with Access Control module X
NO COM ACM	Bus communication failure with the ACM module
NO COM KP=XX	Bus communication failure with keypad ID=XX
NO COM KR=XX	Bus communication failure with Proximity Key Reader XX
NO COM PRN=X	Bus communication failure with the printer module X
NO COM VOICE	Bus communication failure with Advanced Voice module
NO COM WBA=X	Bus communication failure with the wireless keyfob module ID=X
NO COMM PS=X	Bus communication failure with power supply expander ID=X
NO COMM SIREN=X	Bus communication failure with siren ID=X
NO COMM UO=X	Bus communication failure with UO expander ID=X
NO COMM Z=XXX	Bus communication failure with BUS zone XXX
NO COMM ZE=X	Bus communication failure with zone expander ID=X
NO COMM. GSM	GSM communication failure
NO FAULT Z=XXX	Trouble restore in zone XXX (TEOL zone or BUS zone input TEOL)
NO JAM WBA=X	Jamming restore on wireless keyfob expander ID=X
NO JAMM ZE=X	Wireless jamming restore from zone expander ID=X
NO MASK Z=XXX	Anti mask trouble restore from zone XXX
NXT HOM:P=X	Partition X is armed in Next Stay mode
OPEN DOOR=XX	Door XX opened
OVERLOAD PS=X	Overload from 3A SMPS X
OVERLOAD RS PS=X	Overload restore from 3A SMPS X
PHONE FAIL	If the phone line is cut or the DC level is under 3V
PHONE RESTORE	Phone line trouble restore
PIR RSTR Z=XXX	PIR trouble restore from BUS zone XXX
PIR TRBL Z=XXX	PIR trouble from BUS zone XXX
POLICE KP=XX	Police alarm from keypad (ID=XX) (keys 1 & 2)
POLICE WB=XX	Panic button on keyfob XX was pressed
POT.LOAD RS PS=X	Potential overload restore of 3A SMPS joined by 3A SMPS X
POT.OVRLOAD PS=X	Potential overload of SMPS joined by 3A SMPS X
PRN=X FUL RS	Printer module X buffer is down to less than 75% of its capacity
PRN=X FULL	Printer module X buffer is full to more than 75% of its capacity
PROX FAIL S=X	Fail in the proximity anti approach protection in siren X
PROX OK SIREN=X	Proximity anti approach protection is restored in siren X
PROX TMP RS S=X	Proximity tamper restore from siren ID =X
PROX TMP SIREN=X	Proximity tamper from approaching siren ID=X
PS=X OVER.R C=YY	Overload in 3A SMPS X. Reset by user YY

EVENT MESSAGE	DESCRIPTION
READER=XX SET	Set reader XX criteria
REMOTE PROG	The system has been programmed from the UD software
RESTORE Z=XXX	Alarm restore in zone XXX
RMT ARM:P=X	Partition X armed from the UD software
RMT DIS:P=X	Partition X disarmed from the UD software
RMT HOM:P=X	Partition X armed in Stay mode from the UD software
SELF FAIL Z=XXX	BUS zone XXX has failed the Self Test
SELF OK Z=XXX	Self Test in BUS zone XXX has been restored
SOAK FAIL Z=XXX	Zone XXX has failed in the Soak Test
SPEC. KP=XX	Special alarm from keypad (ID=XX) (keys 7 & 8)
SPK TRBL RS S=X	Speaker trouble restore on siren ID=X
SPK TRBL SIREN=X	Speaker trouble on siren ID=X
START EXIT P=X	Exit time started in partition X
TAMPER EVLOG	Tamper alarm from event log expander ID=X
TAMPER KP=XX	Tamper alarm from keypad ID=XX (wall tamper or cover tamper)
TAMPER PS=X	Tamper alarm from power supply expander ID=X
TAMPER SIREN=X	Tamper alarm from siren ID=X
TAMPER UO=X	Tamper alarm from UO expander ID=X
TAMPER VOICE	Tamper alarm from Advanced Voice module
TAMPER WBA=X	Tamper alarm from wireless keyfob expander ID=X
TAMPER ZE=X	Tamper alarm in zone expander ID=X
TAMPER ZN=XXX	Tamper alarm from zone XXX
TMP RS EVLOG	Tamper alarm restore from event log expander ID=X
TMP RS KP=XX	Keypad tamper restore
TMP RS PS=X	Tamper alarm restore from power supply expander ID=X
TMP RS UO=X	Tamper alarm restore from UO expander ID=X
TMP RS VOICE	Tamper alarm restore from Advanced Voice module
TMP RS WBA=X	Tamper alarm restore from wireless keyfob expander ID=X
TMP RS ZE=X	Tamper alarm restore in zone expander ID=X
TMP RS ZN=XXX	Tamper alarm restore on zone XXX
TMP RSTR SIREN=X	Tamper restore from siren ID=X
TRB RS PRN=X	Trouble restore in printer module ID=X
TRBL PRN=X	Trouble in printer module ID=X
UNBYP BOX+BELL	Box and bell tampers are unbypassed
UNBYPS ZN=XXX	Zone XXX is unbypassed
UO REST ZN=XXX	A zone defined as “UO Trigger” has been deactivated

EVENT MESSAGE	DESCRIPTION
UO TRIG ZN=XXX	A zone defined as “UO Trigger” has been activated
WEAK BAT PS=X	Weak battery indication joined by 3A SMPS X
WEAK BAT RS PS=X	Weak battery restore indication joined by 3A SMPS X
X.Modem:Comm OK	BUS communication OK with the external modem
X.Modem:TAMPER	Tamper alarm in external modem
X.Modem:TAMPR OK	Tamper alarm restore in external modem
XModem:Comm Fail	BUS communication failure with the external modem
XModem:No Phone	No phone connection to the external modem
XModem:Phone OK	Phone connection restored to the external modem
Z=XXX AUT BAD	Zone self-test failed, zone XXX
Z=XXX AUTO OK	Zone self-test OK, zone XXX

Appendix E: Installer Programming Maps

[1] System

[11] Time Define

[111] Ex/En Delay 1	[115] S. Aux Break	[119] More
[112] Ex/En Delay 2	[116] WL MOD. Times	[1191] Phone Line Cut Delay Time
[113] Bell Timeout	[117] Z. Test Times	[1192] Guard Delay
[114] Bell Delay	[118] AC Off Delay	

[12] System Control

[1201] Quick Arm	[1215] Code GM	[1229] GM AUT/PAR
[1202] Quick UO	[1216] Audible Jam	[1230] Double Code
[1203] Allow Bypass	[1217] Technician Tmpr	[1231] Disarm Stop FM
[1204] Quick Bypass	[1218] Technician Reset	[1232] Global Follower
[1205] False Code Trouble	[1219] Abort Alarm	[1233] Area
[1206] Bell Sqk	[1220] Summ/Win Clock	[1234] DIS Keypad Auto Disarm Exists
[1207] Bell 30/10	[1221] Forced KSW	[1235] Aud Prx TMP
[1208] Alm Phone Cut	[1222] Pager	[1236] AM=Tamper
[1209] 3 Min Bypass	[1223] Arm Prewrn	[1237] Prox AM=Tamper
[1210] Dbl Ver Fire Al	[1224] L.Batt.Arm	[1238] SIRN AUX=TMP
[1211] Aud Panic	[1225] ENG Tamper	[1239] GSM Pre-Alarm
[1212] Buzz->Bell	[1226] Blank Display	[1240] Dis. GSM Bat
[1213] Alarm ZE Cut	[1227] 24H Bypass	
[1214] Fire Temp Pattern	[1228] IMQ Install	

[13] Set Clock

[131] System Date	[132] System Time

[14] Windowing

[141] Window Start	[142] Window Stop	[143] Window Days

[15] System Labels

[16] Tamper Sound

[161-5] Tamper Sound

[17] Default Enb/Disb

[18] Service Info

[181] Service	[182] Service Phone

[19] System Version

[2] Zones

[21] One by One

[22] Partitions/Group

[23] Zone Type

[23zz00] Not used	[23zz08] I+Ex(Op)/En	[23zz16] Special
[23zz01] Ex/En1	[23zz09] I+En Follower	[23zz17] Pulsed KSW
[23zz02] Ex/En2	[23zz10] I+Instant	[23zz18] Exit Termination
[23zz03] Ex(Op)/En	[23zz11] UO Trigger	[23zz19] Latch KSW
[23zz04] En Follower	[23zz12] Day Zone	[23zz20] EN.Fol+Stay
[23zz05] Instant	[23zz13] 24 Hours	[23zz21] KSW Delay
[23zz06] I+Ex/En1	[23zz14] Fire	[23zz22] Latched KSW Dly
[23zz07] I+Ex/En2	[23zz15] Panic	

[24] Zone Sound

[241] Silent	[243] Buzzer Only	[245] Door Chime
[242] Bell Only	[244] Bell+Buzzer	[246] Bell/A Buz/D

[25] Termination

[2501] N/C	[2505] BUS Zone	[2509] BZ Input DEOL
[2502] EOL	[2506] TEOL	[2510] BZ Input N/O
[2503] DEOL	[2507] BZ Input N/C	[2511] BZ Input TEOL
[2504] N/O	[2508] BZ Input EOL	

[26] Loop Response

[27] Cross Zone

[271] Zone Crossing

[28] Labels

[29] Maintenance

[291] Copy Zone	[294] Delete Par.	[297] WL Comm. Test
[292] Delete Zone	[295] WL Calibrate	[298] Zone Self Test
[293] Add/Copy Par.	[296] WL Zone Alloc	[299] Soak Test

[20] Miscellaneous

[201] Forced Arming	[202] Pulsed Counter	[203] BUS Zone Prms.

[3] Utility Output

[30] Nothing

[31] System

[3101] Bell Follow	[3107] AC Loss Fol	[3113] D Key Reader Comm
[3102] No Tel Line	[3108] Sensors Test	[3114] Switch AUX
[3103] Comm. Fail	[3109] Voice Module	[3115] GSM Error
[3104] Trouble Follow	[3110] Battery test	[3116] GSM:PSTN Loss
[3105] GND Pulse	[3111] Bell Burglary	[3117] GSM:Low Bat
[3106] Low Bat. Fol	[3112] Scheduler	

[32] Partition

[3201] Ready Follow	[3209] Buzzer Follow	[3217] Disarm Follow
[3202] Alarm Follow	[3210] Chime Follow	[3218] Bell Follow
[3203] Arm Follow	[3211] Ex/En Follow	[3219] Bell Stay Off
[3204] Burglary Follow	[3212] Fire Trouble Follow	[3220] Zone Bypass
[3205] Fire Follow	[3213] Day (Zone) Follow	[3221] Auto Arm Alarm
[3206] Panic Follow	[3214] Gen Trouble Follow	[3222] Zone Loss Alarm
[3207] Special Emergency Follow	[3215] Stay Follow	
[3208] Duress Follow	[3216] Tamper Follow	

[33] Zone

[331] Zone Follow	[333] Arm Follow	[334] Disarm Follow
[332] Alarm Follow		

[34] User Code

[3401] Pulse N/C	[3403] Pulse N/O	[3404] Latch N/O
[3402] Latch N/C		

[4] Code Maintenance

[41] Authority

[42] Partition

[43] Grand Master

[44] Installer

[45] Sub-Installer

[46] Code Length

[5] Dialer			
[51] Link Up			
	[511] MS Link Up	[512] U/D Phones	
[52] Cust. Accounts No.			
[53] Comm Format			
[54] Access & ID			
	[541] Access Code	[542] ID Code	[543] MS Lock
[55] Control			
	[5501] MS Enable	[5507] User Initiate	[5513] Show Handshake
	[5502] FM Enable	[5508] Callback U/D	[5514] Audible Kissoff
	[5503] U/D Enable	[5509] Autobatch	[5515] UD GSM Enable
	[5504] Call Delay	[5510] Answer Machine	[5516] X.Modem Enable
	[5505] Dial Tone	[5511] UL Installation	
	[5506] Call Save	[5512] Show Kissoff	
[56] Parameters			
	[561] MS Retries	[564] Dial Tone Time	[567] Pulse Duty Cycle
	[562] FM Retries	[565] Redial Wait	[568] Swinger Limit
	[563] Rings to U/D	[566] Dial Method	[569] VM Retries
[57] Report Split			
	[571] MS Arm/Disarm	[573] MS Non Urgent	[575] Email (See Email table on page E-6)
	[572] MS Urgent	[574] Follow Me	[576] Event Log
[58] Alarm Restore			
	[581] On Bell Time Out	[582] Follow Zone	[583] At Disarm
[59] Periodic Test			
	[591] MS Test	[592] UD Test	
[50] More			
	[501] Auto Codes	[502-6] ACM Parameters (See ACM table on page E-5)	

[6] Report Codes
[61] Emergency Key
[62] Zones
[63] Accessory Tamper
[64] Main Trouble
[65] PS Trouble
[66] Arm Codes
[67] Disarm Codes
[68] Miscellaneous
[69] Special Comm
[60] Accessory Code

[7] Accessories

[71] Add/Delete module

[711] Keypad	[717] Printer Module	[7194] Siren
[712] Zone Expander	[718] Access Control	[7195] BUS Zones
[713] Utility Output	[719] More	[7196] GSM
[714] Power Supply	[7191] Dig Key Reader	[7197] X. Modem
[715] Event Logging	[7192] Advanced Digital Voice	
[716] WL Button	[7193] ACM	

[72] Verify Module

[73] BUS Test

[74] BUS Scanning

[75] Auto Settings

[8] Miscellaneous

[81] Keyfobs

[811] WL Button Param	[812] WL Button Allocation

[82] Siren

[821] Strobe Control	[823] Strobe Arm SQK	[826] Proximity Level
[822] Strobe Blink	[824] Siren LED	[827] Bat. Load Test

[83] GSM

(See GSM table)

[9] Access Control

[91] Door Define

[91dd1] Partitions	[91dd3] Door Fire	[91dd5] Door Label
[91dd2 Door Time	[91dd4] Door Input	

[92] Card Code Pos.

[93] Special Code

ACM

[502] ACM Parameters

[5021] ACM IP Address	[5027] Gateway IP	[50203] DNS 1 IP
[5022] ACM UD Port	[5028] Software Update IP	[50204] DNS 2 IP
[5023] ACM AUX1 Port	[5029] Software Update Port	[50205] NTP IP
[5024] ACM AUX2 Port	[5020] More	[50206] NTP Port
[5025] ACM AUX3 Port	[50201] U/D IP Mask	[50207] NTP UPD Time
[5026] Subnet IP Mask	[50202] ACM Net Name	

[503] ACM Control

[5031] ACM Config	[5033] ACM AUX1 Config	[5035] ACM AUX3 Config
[5032] ACM UD Config	[5034] ACM AUX2 Config	

[504] ACM MS Polling

[5041] ACM MS Primary	[5042] ACM MS Secondary	[5043] ACM MS Backup

[505] ACM Function

[506] View ACM Config

- **Email**
  - **[575] Email**
    - [5751] Mail IP Address
    - [5752] Mail SMTP Port
    - [5753] Mail POP3 Port
    - [5754] Email Prefix
    - [5755] Email Domain
    - [5756] SMTP User Name
    - [5757] SMTP Password
- **[83] GSM**
  - **[831] GSM Parameters**
    - [8311] GSM Mode
      - [83111] GSM Backup
      - [83112] GSM Only
      - [83113] GSM Main
    - [8212] GSM Times
      - [83121] PSTN Lost
      - [83122] GSM Lost
      - [83123] SIM Expire Date
    - [8313] Prefix
      - [8313 1 to 2] PBX Prefix
      - [8313 3 to 8] Prefix Constant
      - [83139] Remove Prefix
      - [83130] Add Prefix
    - [8314] PIN Code
    - [8315] GPRS
      - [83151] APN Code
      - [83152] GPRS User Name
      - [83153] GPRS Password
      - [83154] GPRS MS Polling
        - [831541] GPRS Primary
        - [831542] GPRS Secondary
        - [831543] GPRS Backup
    - [8316] Email
      - [83161] SMTP IP Address
      - [83162] SMTP Port
      - [83163] SMTP User Name
      - [83164] SMTP Password
      - [83165] SMTP Email Prefix
      - [83166] SMTP Email Domain
    - [8317] Caller ID
    - [8318] RSSI Level
  - **[832] GSM Control**
    - [8321] Disable In. Call

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WARNING: This product should be tested at least once a week.

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