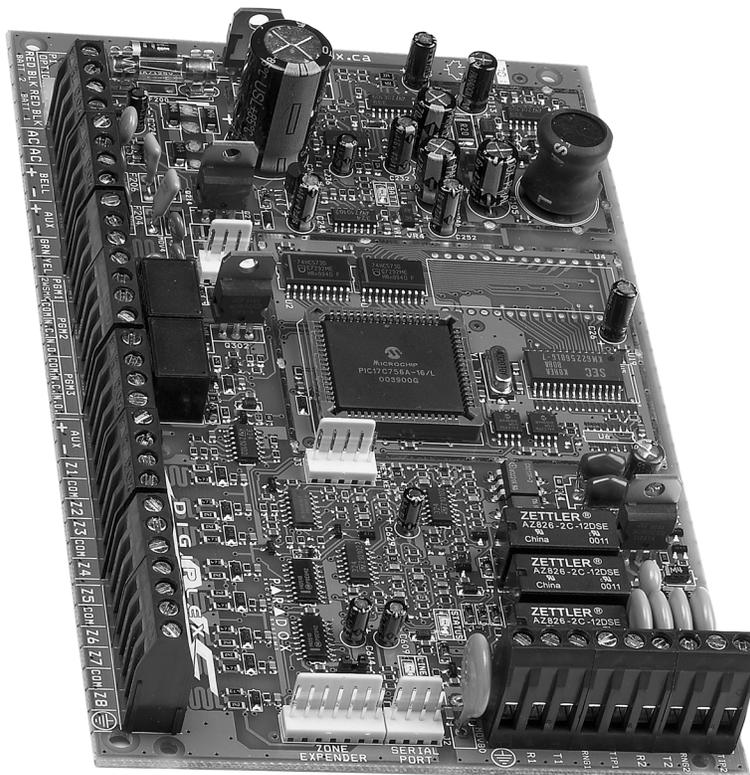


DIGIPLEX



DigiplexNE Control Panel - V1.0



DGP-NE96

Reference and Installation Manual

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INTRODUCTION

The integrity of a security system relies not only in the performance of the control panel, keypads, motion detectors and other accessories, but in the ability to communicate information effectively back and forth through the system's wiring. With this in mind Paradox Security Systems created the next evolution in control panel technology: DigiplexNE. DigiplexNE uses GuardWall Technology, a specialized encrypted communication protocol to transmit data efficiently between the control panel and all its modules simultaneously and continuously. Since data is constantly transmitted through the 4-wire communication network, any attempt to tamper with or disable any module or the wiring is immediately recognized and causes an alarm to be reported whether the system is armed or not.

DigiplexNE also offers the additional benefit of an innovative built-in access control system. Manage, control and monitor the traffic of up to 999 users through 32 secured areas by defining the days and times they are allowed access. By integrating access control and security, DigiplexNE provides the best of both worlds in a feature-rich and user-friendly system.

Beyond offering high security, Guardwall technology makes installing and programming effortless by eliminating the need for home run wiring, jumpers and EOL resistors. Connect the modules with GuardWall technology in any order anywhere on the communication network and assign the zones as desired. Since programming a large security system through a keypad can be time consuming and tedious, installers can use the WinLoad software to complete all the programming remotely, including setting a motion detector's sensitivity. Even users can modify their security system through the comfort of their own computer with NEware, a simple, intuitive interface designed to add employees, set schedules, assign access rights, view the status of the system and all its modules and more.

CTR-21 APPROVAL

The DigiplexNE control panel (DGP-96) meets the European Union Common Technical Requirement CTR-21. The CTR-21 requirement is an electrical standard that defines the analogue interface for all two-wire telecommunications equipment (i.e. DECT, PABXs, etc.) intended for connection to the Public Switched Telephone Network. This allows the DigiplexNE control panel to be used in as many as 19 countries, such as Belgium, Germany, Greece, Portugal, Sweden and Switzerland. DigiplexNE control panels with the CTR-21 approval are available as an option only.

1.1 FEATURES

- ◆ GuardWall technology:
 - Digital communication network
 - Provides constant power, supervision and two-way communication between the control panel and all its modules
 - Supports up to 127 modules
 - Connect modules up to 3000ft (914m) from the panel
 - Sabotage-proof technology without additional wiring
- ◆ 96 addressable zones
- ◆ 8 partitions
- ◆ 998 user codes, 1 System Master code and 1 installer code
- ◆ Built-in access control
- ◆ 2048 stored events
- ◆ 1 telephone line and optional secondary telephone line
- ◆ Remote diagnostics and pager messaging
- ◆ False alarm prevention features
- ◆ 32 independent keyswitch zones (does not use any of the 96 zones)
- ◆ 8 on-board hardwired input terminals
- ◆ 3 on-board fully programmable outputs (PGMs):
 - 1 normally open, high-current transistor output (100mA)
 - 2 normally open or normally closed 5A programmable relay outputs
 - Up to 32 more PGM inputs through the Keyswitch's PGM Input feature
- ◆ PGM1 can be set as a two-wire smoke detector input

- ◆ Event reporting:
 - a separate dialing sequence for each partition
 - 4 Monitoring Station Telephone Numbers
 - SIA, Contact ID, Ademco Contact ID Edition 2000, Pager Format and many more communicator formats

1.2 SPECIFICATIONS

CONTROL PANEL

AC Power:	16Vac, 20/40VA, 50-60Hz
Battery:	12Vdc, 4Ah minimum
Auxiliary Power:	12Vdc 600mA typical, 700mA maximum, fuseless shutdown at 1.1A
Bell Output:	1A, fuseless shutdown @ 3A
PGM Output:	PGM1 (100mA), PGM2 and PGM3 (5A relay)
Event Buffer:	2048 events
All control panel outputs are rated to operate between 10.8Vdc and 12.1Vdc	

1.3 KEYPAD SPECIFICATIONS

Power input:	9-16 Vdc
Typ. current consumption:	60mA (DGP2-641) 150mA (DGP2-641AC)
PGM current limit:	50 mA
Number of inputs:	1 (DGP2-641) 2 (DGP2-641AC)
Power indication:	Yellow LED on
Locate indication:	Green and yellow LEDs flash simultaneously
Network fault indication:	Red and yellow LEDs flash alternately
Tamper Switch:	Yes (also used to deactivate locate)
LCD:	Super Twisted Nematic display (STN), wide viewing angle, 2 lines of 16 characters, adjustable scrolling speed, backlight and contrast

ACCESSORIES



WINLOAD (UDS-2000)

- User-friendly programming of Spectra, Digiplex and DigiplexNE control panels
- Remote and local uploading and downloading at speeds up to 38,400 baud
- Online monitoring
- Compatible with Windows® 95/98/2000/NT/ME
- Event display and report printing
- Supports multiple languages



NEWARE

- Provides clients with full control of their system
- Intuitive and user-friendly interface
- Easily program user codes, options, partition assignment and access control features
- Create user programming templates
- Monitor system status (zones, troubles, etc.)
- Search and print events for archiving
- Connect at speeds up to 38,400 baud
- Connect up to 1000ft (300m) with RS-232 converter
- Compatible with Windows® 95/98/2000/NT/ME



PARADOX MEMORY KEY (PMC-3)

- Customize control panel templates
- Download or upload panel programming in less than 5 seconds
- No need for a telephone line, PC or any other peripheral device
- Compatible with Spectra 1738 and 1738EX, Digiplex, DigiplexNE, LCD Keypad DGP2-641 and Access LCD Keypad DGP2-641AC



ACCESS CONTROL LCD KEYPAD (DGP2-641AC)

- Access granted via card or access code
- Reader input (PosiProx, CR-R880-A)
- Door contact and request-for-exit inputs
- Door lock output
- Programmable automatic unlocking schedule
- Upload and download programming with Memory Key
- Compatible with Digiplex and DigiplexNE
- GuardWall Technology



LCD KEYPAD (DGP2-641)

- 32-character LCD screen
- Programmable messages
- Adjustable contrast, backlight and scroll speed
- Compatible with Digiplex and DigiplexNE
- Upload and download programming with Memory Key
- GuardWall Technology



ADDRESSABLE DIGITAL MOTION DETECTORS (DGP2-50)

- 100% digital motion detection
- No jumpers: programmed through keypad or WinLoad software
- Digital SHIELD™ algorithm software
- Digital Auto Pulse Signal Processing*
- Metal shield minimizes EMI & RFI interference
- Compatible with Digiplex and DigiplexNE
- Dual element sensor
- 110° viewing angle
- 40ft (12m) x 40ft (12m)
- GuardWall Technology



ADDRESSABLE DIGITAL MOTION DETECTORS (DGP2-60)

- 100% digital motion detection
- No jumpers: programmed through keypad or WinLoad software
- Digital SHIELD™ algorithm software
- Digital Auto Pulse Signal Processing*
- Metal shield minimizes EMI & RFI interference
- Compatible with Digiplex and DigiplexNE
- Quad element sensor
- Digital Dual Opposed Detection
- Interlock Sensor Geometry
- 110° viewing angle
- 40ft (12m) x 40ft (12m)
- GuardWall Technology



ADDRESSABLE HIGH-SECURITY DIGITAL MOTION DETECTOR WITH PET IMMUNITY (DGP2-70)

- 100% digital motion detection
- No jumpers: program with keypad or WinLoad
- Digital SHIELD™ algorithm software
- Digital Auto Pulse Signal Processing*
- Metal shield minimizes EMI & RFI interference
- Compatible with Digiplex and DigiplexNE
- Dual optics (2 dual opposed element sensors)
- Pet-friendly lens pattern
- Immune to pets weighing up to 90lbs (41kg).
- 90° viewing angle
- 35ft (10.5m) x 35ft (10.5m)
- GuardWall Technology



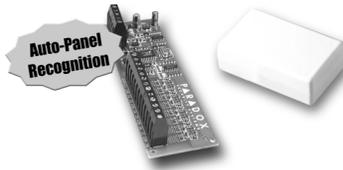
ADDRESSABLE DOOR CONTACT (DGP2-ZC1)

- Addressable Zone
- Reed switch contact
- Tamper switch
- Compatible with Digiplex and DigiplexNE
- GuardWall Technology



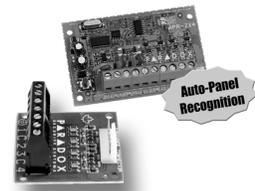
**OMNIA
433MHZ WIRELESS SYSTEM
(OMN-RCV3)**

- 16 wireless zones
- 16 remote controls
- 500ft (152m) range line of sight
- Code-hopping technology with high-security encryption
- Error Correction Algorithm
- Transmitter Signal Strength Display
- Transmitter Battery Life Display
- 1 on-board 5A programmable relay (1 optional)
- 433MHz Wireless Door Contact (OMN-DCT1)
- 433MHz Motion Detector (OMN-PMD1)
- 4-button remote controls (OMN-RCT1)
- Auto-panel Recognition: compatible with Digiplex, DigiplexNE and Spectra (V2.0 or higher)
- GuardWall Technology



**1-ZONE HARDWIRE
EXPANSION MODULE
(DGP2-ZX1)**

- 1 programmable hardwired zone
- 2 programmable zones with ATZ
- Program input speed up to 255 minutes
- GuardWall Technology



**4-ZONE HARDWIRE MODULE
(APR3-ZX4)**

- 4 programmable hardwired zones
- 8 programmable zones with ATZ
- Auto-panel Recognition: compatible with Digiplex, DigiplexNE and Spectra (V2.0 or higher)
- GuardWall Technology

**8-ZONE HARDWIRE MODULE
(APR3-ZX8)**

- 8 programmable hardwired zones
- 16 programmable zones with ATZ
- 1 PGM output (50mA)
- Auto-panel Recognition: compatible with Digiplex, DigiplexNE and Spectra (V2.0 or higher)
- GuardWall Technology

**4-ZONE HARDWIRE
EXPANSION MODULE
(DGP2-ZX4)**

- 4 hardwired input terminals (8 zones with ATZ)
- Plug-in module (connects on main board)



**INTOUCH
VOICE-ASSISTED ARM/DISARM
MODULE
(APR3-ADM2)**

- Arm/disarm via telephone
- Activate or deactivate a PGM via telephone
- Verify system status
- Clear and concise voice prompts
- Various language available
- Auto-panel Recognition: compatible with Digiplex, DigiplexNE and Spectra (V2.0 or higher)
- GuardWall Technology



**PRINTER MODULE
(APR3-PRT1)**

- 1 parallel port and 1 serial port
- Assign to any or all partitions
- Automatic or manual printing (all, single or group event printing)
- Send job to printer and/or PC for on-screen viewing
- 50mA PGM output
- Auto-panel Recognition: compatible with Digiplex, DigiplexNE and Spectra (V2.0 or higher)
- GuardWall Technology

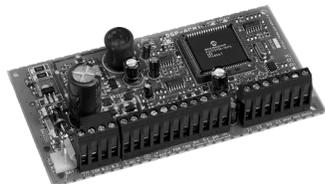


**1-PGM OUTPUT MODULE
(APR3-PGM1)**

- 1 programmable 5A relay output
- Control any device, such as a light, siren or garage door
- Auto-panel Recognition: compatible with Digiplex, DigiplexNE and Spectra (V2.0 or higher)
- GuardWall Technology

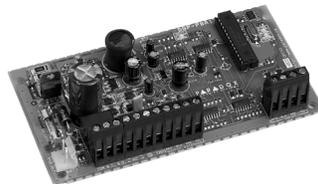
**4-PGM OUTPUT MODULE
(APR3-PGM4)**

- 4 programmable 5A relay outputs
- Control any device, such as a light, siren or garage door
- Auto-panel Recognition: compatible with Digiplex, DigiplexNE and Spectra (V2.0 or higher)
- GuardWall Technology



**ACCESS CONTROL MODULE
(DGP2-ACM1)**

- Same features as DGP2-641AC
- Unlock door using PGM events
- The DGP2-ACM1P includes a 1.7A switching power supply
- GuardWall Technology



**POWER SUPPLY MODULE
(DGP2-PS17)**

- Fully supervised
- 1.7A switching power supply
- GuardWall Technology



**TIME MODULE
(DGP2-TM1)**

- Keeps time and date after a complete power failure
- Ideal for card access applications
- 11-year battery life expectancy (included)
- Plug-in module

INSTALLATION

3.1 RECOMMENDED INSTALLATION PROCEDURE

This procedure is recommended to facilitate installation by verifying the wiring at different stages instead of only at the end.

Step 1: Install the control panel.

Step 2: Connect a portion of the system's modules, including a keypad, to the communication network.

Step 3: Connect the battery and then connect the AC power. Only the Clock Loss trouble should appear.

Step 4: Disconnect AC power and the battery.

Step 5: Continue the installation by following steps 2, 3 and 4.

Step 6: Once the installation is complete, enter section [4000] to verify if all the modules' serial numbers appear (see section 12.17 on page 36). If modules were removed from the communication network, enter [4005] to remove them from the panel's memory (see section 12.16 on page 36).

Step 7: Connect an LCD Keypad at various points farthest from the control panel and use the keypad's built-in Voltmeter to verify the communication network's voltage (refer to the Digiplex/DigiplexNE LCD Keypad and Access Control LCD Keypad Reference & Installation Manual).

3.2 LOCATION & MOUNTING

Before mounting the cabinet, push the five white nylon mounting studs into the back of the cabinet. Pull all cables into the cabinet and prepare them for connection before mounting the circuit board into the back of the cabinet. Select an installation site that is not easily accessible to intruders and leave at least 2" around the panel box to permit adequate ventilation and heat dissipation. The installation site should be dry and close to an AC source, ground connection and telephone line connection.

3.3 EARTH GROUND

Connect the zone and dialer ground terminals from the control panel to the cabinet and cold water pipe or grounding rod as per local electrical codes.

! For maximum lightning protection, use separate earth grounds for the zone and dialer grounds (see Figure 3-3 on page 10).

3.4 AC POWER

Use a 16.5Vac (50/60Hz) transformer with a minimum 20VA rating to provide sufficient AC power. For increased power use a transformer with a 40VA rating. For UL Listed systems, use model #BE156240CAA. For CSA listed systems, use model #BE116240AAA. Do not use any switch-controlled outlets to power the transformer. Connect the transformer as shown in Figure 3-3 on page 10.

! Do not connect the transformer or the backup battery until all wiring is completed.

3.5 BACKUP BATTERY

To provide power during power loss, connect a 12Vdc 4Ah rechargeable acid/lead or gel cell backup battery (YUASA model #NP7-12 recommended) as shown in Figure 3-3 on page 10. Connect the backup battery after applying AC power. When installing, verify proper polarity, as reversed connections will blow the battery fuse. For details on how to set the Battery Charge Current to either 350mA or 700mA, see section 12.5.

3.5.1 Battery Test

The control panel conducts a dynamic battery test under load every 64 seconds. If the battery is disconnected, if its capacity is too low or if the battery voltage drops to 10.5 volts or less when there is no AC, the "Battery Trouble" message will appear in the Trouble Display. At 8.5 volts, the panel shuts down and all outputs close.

3.6 AUXILIARY POWER TERMINALS

The auxiliary power supply can power the motion detectors, keypads and other accessories in the security system. A fuseless circuit protects the auxiliary output against current overload and automatically shuts down if the current exceeds 1.1A. Auxiliary power will resume once the overload condition has restored. For details on available output power, please refer to Figure 3-3 on page 10. To calculate power consumption, see *Calculating Power Requirements* on page 11.

3.7 BELL/SIREN OUTPUT

The BELL+ and BELL- terminals power bells and/or other warning devices that require a steady voltage output during an alarm. The bell output supplies 12Vdc upon alarm and can support one 30-watt or two 20-watt sirens. The bell output uses a fuseless circuit and will automatically shut down if the current exceeds 3A. If the load on the BELL terminals returns to normal ($\leq 3A$), the control panel will re-instate power to the BELL terminals. When connecting sirens, please verify correct polarity as shown in Figure 3-3. PGM2 and PGM3 are relays rated at 5A each and can be used to power bells and/or other warning devices by programming them as a bell/siren outputs (see section 11 on page 34).

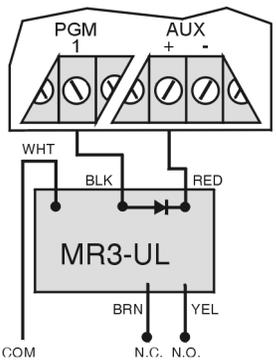
! When the bell output is not used, the "Bell Absent" message appears in the Trouble Display. To avoid this, connect a 1k Ω resistor across the bell output.

3.8 PROGRAMMABLE OUTPUTS

The control panel comes standard with PGM1 to PGM3. When a specific event or condition occurs in the system, a PGM can be programmed to reset smoke detectors, activate strobe lights, open/close garage doors and much more. For details on how to program the PGMs, refer to section 11.

PGM1 is 100mA (max.) normally open output. PGM2 and PGM3 are 5A relay outputs that can be normally open or normally closed. If the current draw on PGM1 is to exceed the current output, we recommend using a relay as shown in Figure 3-1. PGM1 can be programmed as a 2-wire smoke detector input (see section 3.17.1 on page 14 and section 11.6 on page 34).

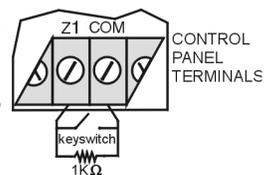
Figure 3-1: PGM & Relay



3.9 KEYSWITCH CONNECTIONS

Connect the keyswitches to the keypad, control panel, or Zone Expansion Module's hardwired input terminals as shown in Figure 3-2. Once a keyswitch is connected, it must be assigned a keyswitch zone and its parameters must be defined as described in *Keyswitch Programming* on page 20.

Figure 3-2: Keyswitch



3.10 ACCESS CONTROL CONNECTIONS

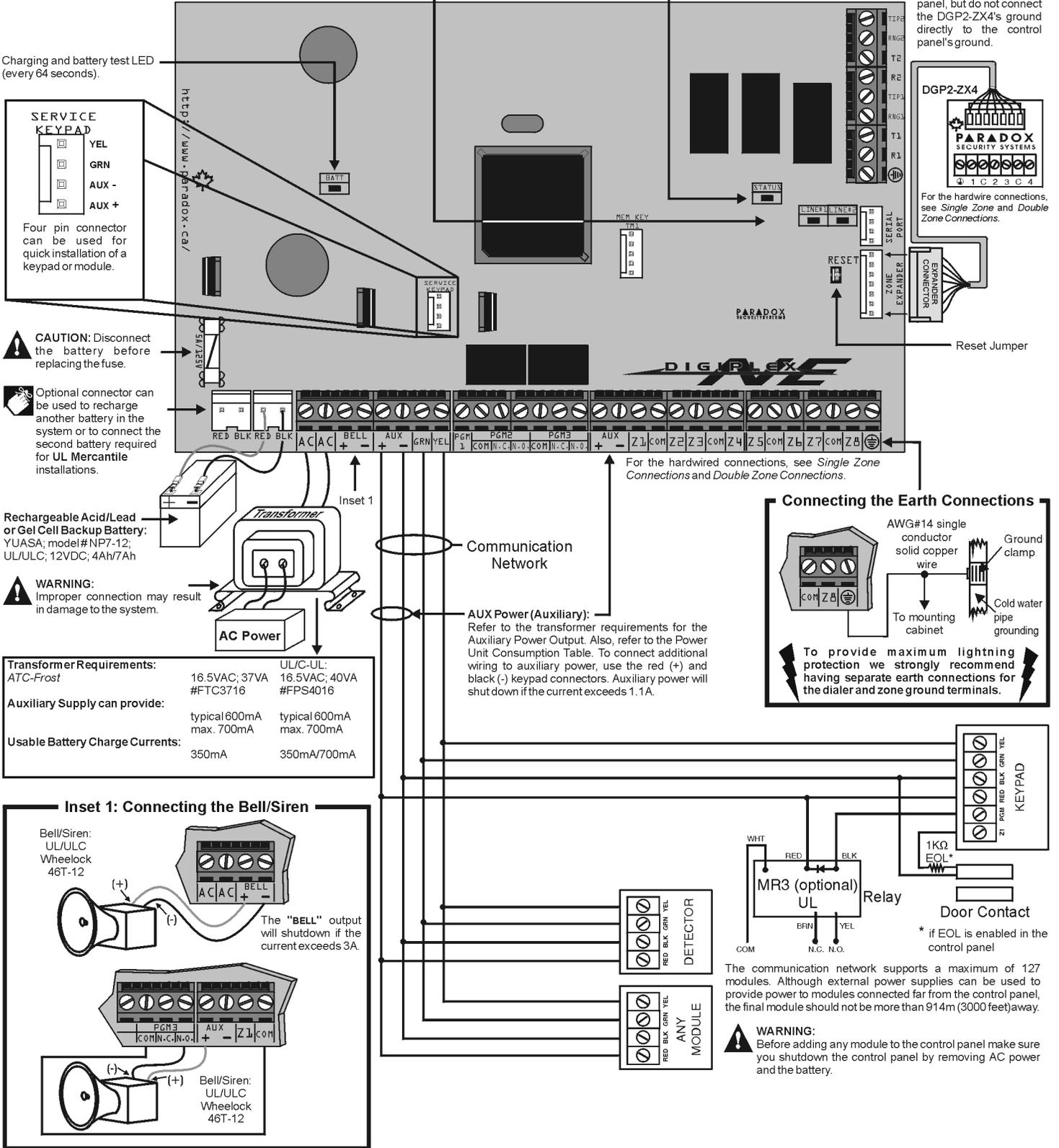
For all access control explanations and connection drawings, refer to *Access Control: System Features* on page 40.

Figure 3-3: DigiplexNE Control Panel PCB Layout

Red "LINE#1" and "LINE#2" LEDs:
Illuminated - If the control panel is using a telephone line, the panel will display which line it is using by illuminating a telephone line LED. If the control panel is using Line 1, the "LINE#1" LED will be illuminated. If the control panel is using Line 2, the "LINE#2" LED will be illuminated.

Red "STATUS" LED:
Flashing - Indicates proper operation.
Fast Flash - Indicates a control panel failure.
Off - Control panel error.

Same ground connections as the panel, but do not connect the DGP2-ZX4's ground directly to the control panel's ground.



3.11 CALCULATING POWER REQUIREMENTS

Table 1: Power Unit Consumption Table

Description	QTY.	PU used by each	Total PU
LCD Keypad (DGP2-641):	_____	X 60PU =	_____ PU
Access Control LCD Keypad (DGP2-641AC):	_____	X 150PU =	_____ PU
Access Control Module (DGP2-ACM1):	_____	X 165PU =	_____ PU
Addressable Digital Motion Detectors (DGP2-50/60/70):	_____	X 16PU =	_____ PU
Addressable Door Contact (DGP2-ZC1)	_____	X 14PU =	_____ PU
1-Zone Hardwire Expansion Module (DGP2-ZX1)	_____	X 15PU =	_____ PU
4-Zone Hardwire Expansion Modules (APR3-ZX4)	_____	X 20PU =	_____ PU
8-Zone Hardwire Module (APR3-ZX8)	_____	X 40PU =	_____ PU
Omnia 433MHz Wireless Receiver Module (OMN-RCV3):	_____	X 50PU =	_____ PU
1-PGM Output Expansion Module (APR3-PGM1):	_____	X 50PU =	_____ PU
4-PGM Output Module (APR3-PGM4):	_____	X 150PU =	_____ PU
Printer Module (APR3-PRT1)	_____	X 40PU =	_____ PU
InTouch Voice-Assisted Arm/Disarm Module (APR3-ADM2)	_____	X 70PU =	_____ PU
Maximum available power units = 700PU		GRAND TOTAL	_____ PU

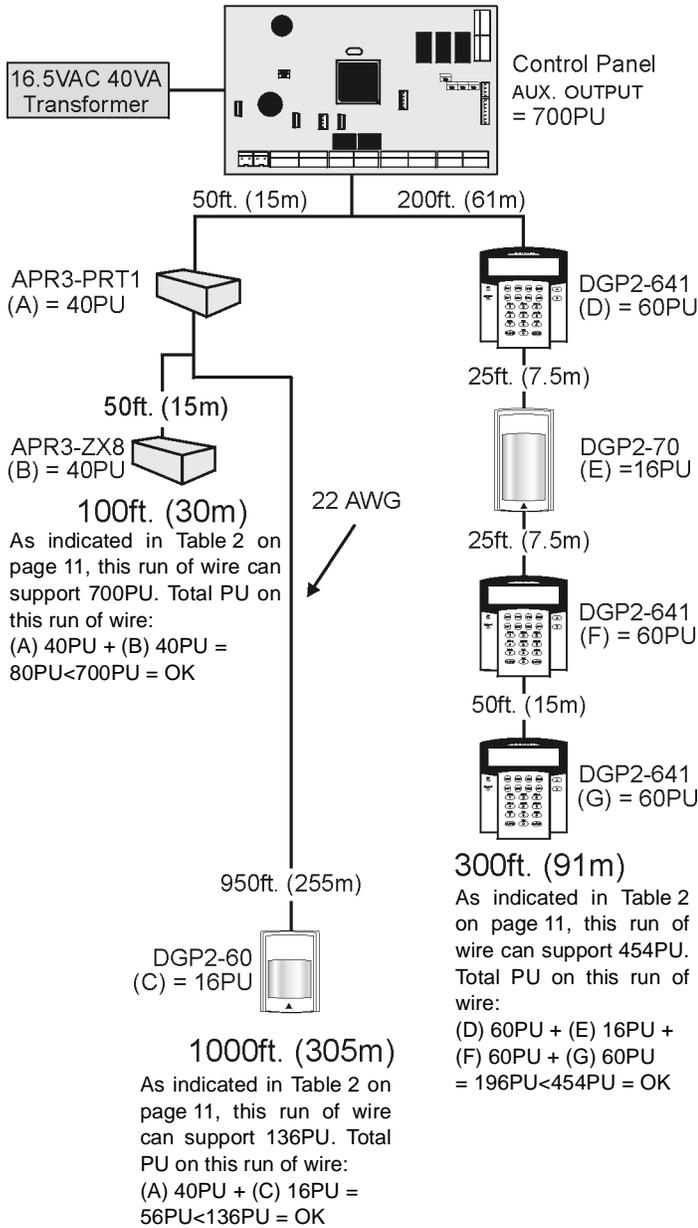
- STEP 1:** Using Table 1, calculate the total number of power units (PU) required by each device, module, and accessory in the system. Please take into account devices connected to the control panel's PGM outputs. Since the BELL output has its own power supply, do not include the sirens connected to it in the calculation.
- STEP 2:** If Grand Total is less than 700PU, go to step 3. If the value is greater, an external power supply is required (see Figure 3-5 on page 12) to provide the additional power needed. Proceed with step 3 and refer to the example in Figure 3-4 on page 12.
- STEP 3:** Due to the degradation of a power signal over long distances, **EACH** length or run of wire in the system can support only a specific number of power units (PU). Using Table 2, determine how many power units each length of wire can support. Please note that the total number of power units (PU) can never surpass 700PU.

Table 2: Power Unit (PU) Limitations For Each Run of Wire

Gauge: 18AWG, Surface: 0.823mm ²		Gauge: 22AWG, Surface: 0.326mm ²		Gauge: 24AWG, Surface: 0.205mm ²	
Length of each run of wire	Available Power Units (PU)	Length of each run of wire	Available Power Units (PU)	Length of each run of wire	Available Power Units (PU)
100ft. (30m)	700	100ft. (30m)	700	100ft. (30m)	700
200ft. (61m)	700	200ft. (61m)	682	200ft. (61m)	429
300ft. (91m)	700	300ft. (91m)	454	300ft. (91m)	286
400ft. (122m)	700	400ft. (122m)	341	400ft. (122m)	214
500ft. (152m)	690	500ft. (152m)	273	500ft. (152m)	171
600ft. (183m)	575	600ft. (183m)	227	600ft. (183m)	143
700ft. (213m)	493	700ft. (213m)	195		
800ft. (244m)	431	800ft. (244m)	170		
900ft. (274m)	383	900ft. (274m)	151		
1000ft. (305m)	345	1000ft. (305m)	136		
1500ft. (457m)	230				
2000ft. (610m)	172				
2500ft. (762m)	138				
3000ft. (914m)	115				

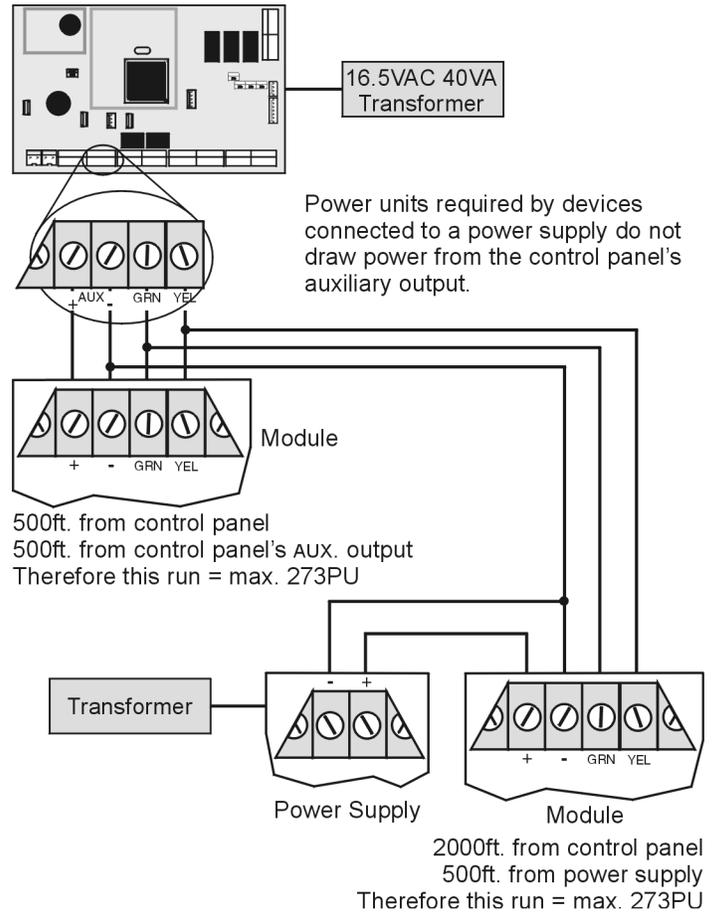
Figure 3-4: Sample Power Requirement Calculations

Power required by devices connected to control panel's auxiliary output must not exceed the auxiliary output's limit:
 $(A) + (B) + (C) + (D) + (E) + (F) + (G) = 292\text{PU} < 700\text{PU} = \text{OK}$



An LCD Keypad (80PU) can be added to the 100ft. or 300ft. wire in Figure 3-4, but adding an LCD Keypad to the 1000ft. wire would exceed the wire's limits and cause devices to function at decreased capacity.

Figure 3-5: External Power Supply Connections



Do not use the same transformer for the control panel and the external power supplies. Do not install modules more than 3000ft (914m) from the control panel.

3.12 KEYPAD ZONE CONNECTIONS

Each keypad has one hardwired input terminal allowing you to connect a detector or door contact directly to the keypad. For example, a door contact located at the entry point of an establishment can be wired directly to the input terminal of the entry point keypad instead of back to the control panel.

Even with the ATZ feature enabled in the control panel, only one device can be connected to the keypad's hardwired input terminal. Tamper is not recognized on keypad zones. The keypad zone follows the control panel's EOL definition.

A device connected to the keypad's input terminal must be assigned to a zone in the control panel and the zone's parameters must be defined (see *Zone Programming* on page 16). The keypad uses GuardWall technology to communicate the status of the zone to the control panel via the communication network. The detection device is connected as shown in Figure 3-3 on page 10.

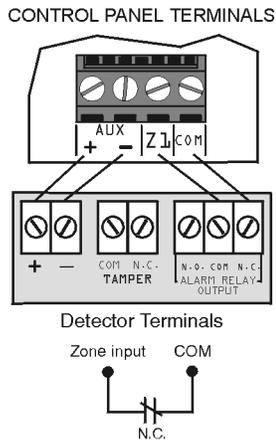
3.13 ADDRESSABLE ZONE CONNECTIONS

The control panel includes eight hardwired input terminals for use with traditional hardwired (non-network) door contacts, smoke detectors and/or motion detectors.

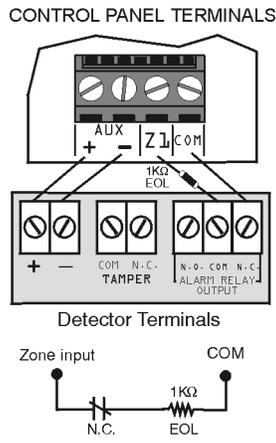
The control panel also supports several hardwire zone expansion modules. Devices connected to hardwired input terminals must be assigned to a zone and the zone's parameters must be defined (see *Zone Programming* on page 16). Figure 3-6 shows single zone (ATZ disabled) hardwire input terminal connections recognized by the DigiplexNE system. For UL listed installations, use EOL resistor part #2011002000.

Figure 3-6: Single Zone Input Connections

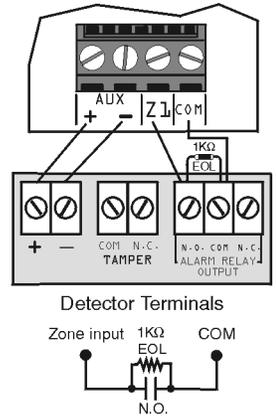
N.C. Contacts, No EOL



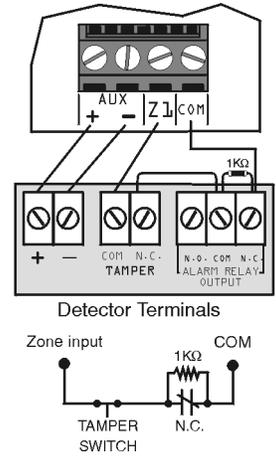
**N.C., With EOL
UL/ULC Configuration**



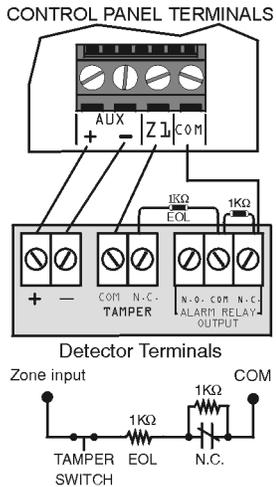
**N.O., With EOL
UL/ULC Configuration**



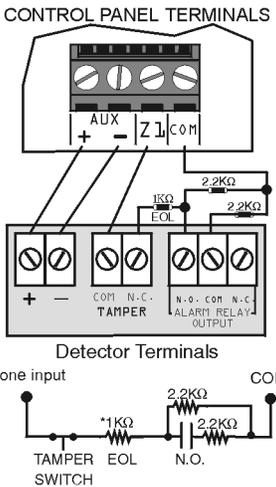
**N.C. Contacts, No EOL,
With Tamper Recognition**



**N.C. With EOL, With Tamper
& Wire Fault Recognition
UL/ULC Configuration**



**N.O., With EOL, With Tamper
& Wire Fault Recognition**
Enable ATZ (see section 5.2 on page 17) and connect as follows (extra input cannot be used)



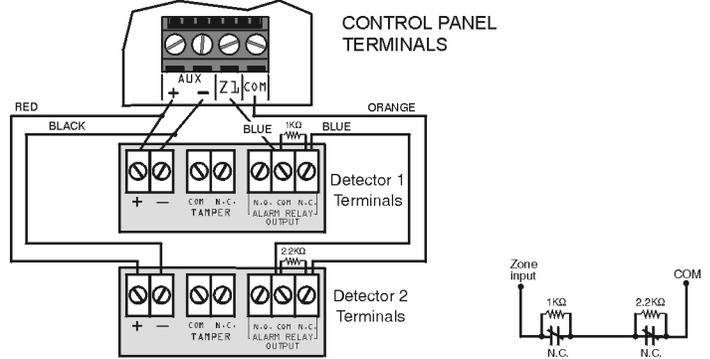
*for installations without EOL, remove 1KΩ

3.14 DOUBLE ZONE CONNECTIONS

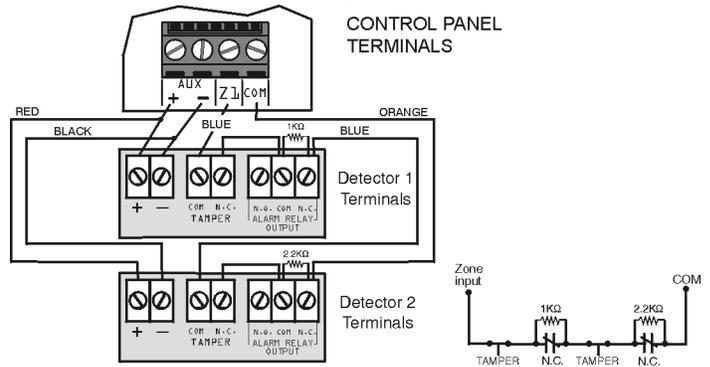
Enabling the ATZ feature (see section 5.2) allows you to install two detection devices per input terminal. Connect the devices as shown in Figure 3-7. Devices connected to input terminals must be assigned to a zone and the zone's parameters must be defined (see *Zone Programming* on page 16). For UL listed installations, use EOL resistor part #2011002000.

Figure 3-7: Double Zone Connections

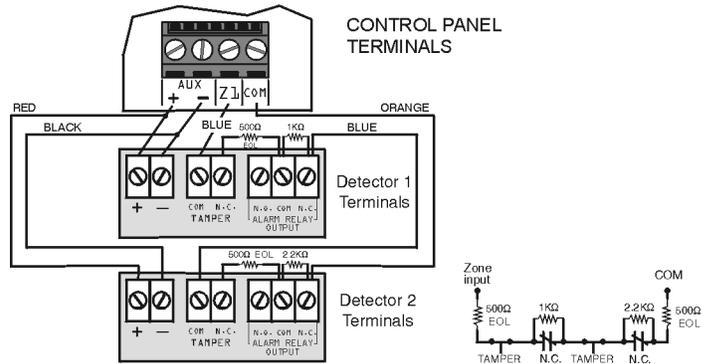
N.C., No EOL Resistor



N.C., No EOL, With Tamper Recognition



N.C., With EOL and Tamper & Wire Fault Recognition (UL/ULC)



3.15 CONNECTING THE DGP2-ZX4

The 4-Zone Hardwire Expansion Module (DGP2-ZX4) provides four additional hardwired input terminals (8 zones with ATZ enabled). It connects directly to the control panel through its on-board EXPANSION connector as shown in Figure 3-3: on page 10. Connect detection devices to the DGP2-ZX4's terminals in the same way that they are connected to the control panel as shown in Figure 3-6 or Figure 3-7 on page 13. Devices connected to hardwired input terminals must be assigned to a zone and the zone's parameters must be defined (*Zone Programming* on page 16). For the 4-Zone Hardwire Module (APR3-ZX4), refer to the DigiplexNE Modules Programming Guide.

3.16 NETWORK CONNECTIONS

DigiplexNE uses GuardWall technology, a specialized encrypted communication protocol to transmit data efficiently between the control panel and all its modules simultaneously and continuously. Modules with GuardWall technology connect anywhere on the 4-wire communication network, which can support up to 127 modules. Connect in a star and/or daisy chain configuration as shown in Figure 3-3 on page 10. The final device on the communication network should not be more than 3000ft (914m) from the control panel. To assign a detection device to a zone in the control panel, see "Zone Programming" on page 16.

⚠ Before connecting a module to the communication network, remove AC and battery power from the control panel.

3.17 FIRE CIRCUITS

Connect the smoke detectors using any of the following methods. Assign the smoke detectors connected to the control panel or zone expansion input terminals to a zone and define the zone's parameters as a Fire Zone (see section 5 on page 16).

3.17.1 Smoke Detector Installation (2-Wire)

PGM1 can be defined as a 2-wire smoke detector input (see section 11.6). Connect the 2-wire smoke detectors as shown in Figure 3-8 using a 1kΩ EOL resistor. If a line short occurs or the smoke detector activates, whether the system is armed or disarmed, the control panel will generate an alarm. If the line is open, the "Zone Fault" trouble indication appears in the Trouble Display and the report code is sent to the Monitoring Station, if programmed.

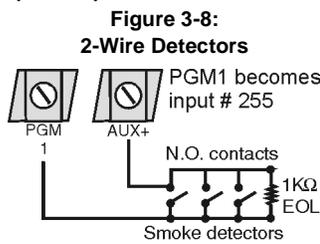


Figure 3-8:
2-Wire Detectors

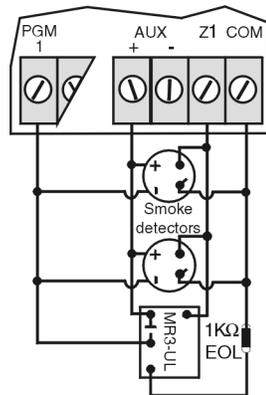
3.17.2 ESL CleanMe® Installation

The DigiplexNE control panel supports ESL smoke detectors that have the CleanMe® feature. Connect ESL smoke detectors like the standard smoke detectors shown in Figure 3-8. Avoid connecting more than 20 ESL smoke detectors. When an ESL smoke detector sends a CleanMe signal, the control panel will generate a Zone Fault trouble and, if programmed, will transmit the Fire Loop report code to the Monitoring Station. The trouble will be cleared if there is no CleanMe signal for 255 seconds. If an alarm occurs, the trouble will be cleared until it is detected again.

3.17.3 Smoke Detector Installation (4-Wire)

Recommended: System Sensor model 2112/24D smoke detectors. Connect the 4-wire smoke detectors and a relay as shown in Figure 3-9. To comply with UL955, install the 4-wire smoke detectors with 18 gauge wire. If power is interrupted, the relay causes the control panel to transmit the Fire Loop Trouble report programmed in section [2906].

Figure 3-9: 4-Wire Detectors
UL/ULC INSTALLATION
CONTROL PANEL TERMINALS



To reset (unlatch), connect the smoke detector's negative (-) to a PGM. Then program the PGM with the "Smoke Reset" activation event (see section 11.1 on page 34) to interrupt power to the smoke detector for four seconds when the [CLEAR] and [ENTER] keys are pressed and held for two seconds.

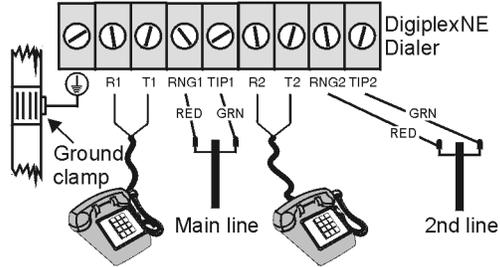
⚠ If ATZ is enabled (see section 5.2 on page 17), do not use the extra input (doubled zone). For example, in this example input 13 cannot be used.

3.18 TELEPHONE LINE CONNECTIONS

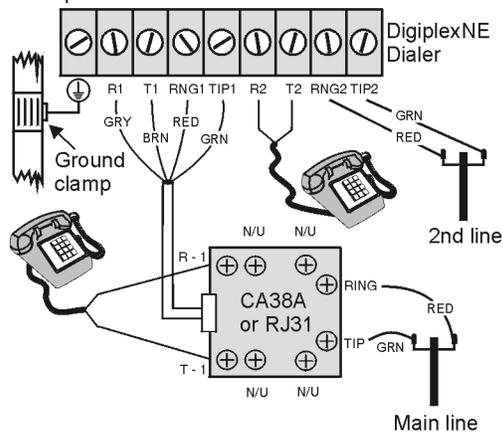
Depending on the installation, the telephone lines can be connected directly to the control panel or through a CA38A or RJ31 as shown in Figure 3-10. The secondary telephone line terminals (optional) can be used as a backup telephone line. If the Event Call Direction process fails and the control panel is unable to communicate with the Monitoring Station through the main line, the control panel will switch to the second line and repeat the Event Call Direction process (see section 9.7 on page 31).

Figure 3-10: Telephone Line Connection Examples

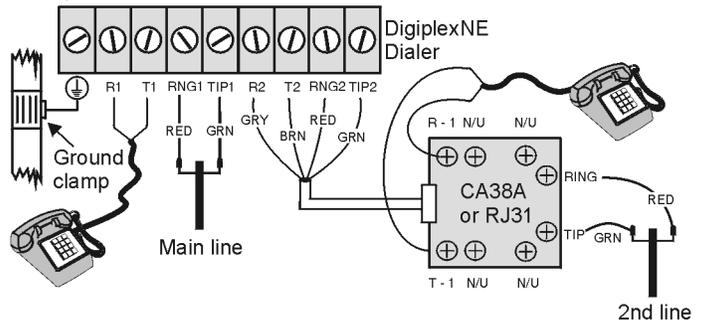
Example 1:



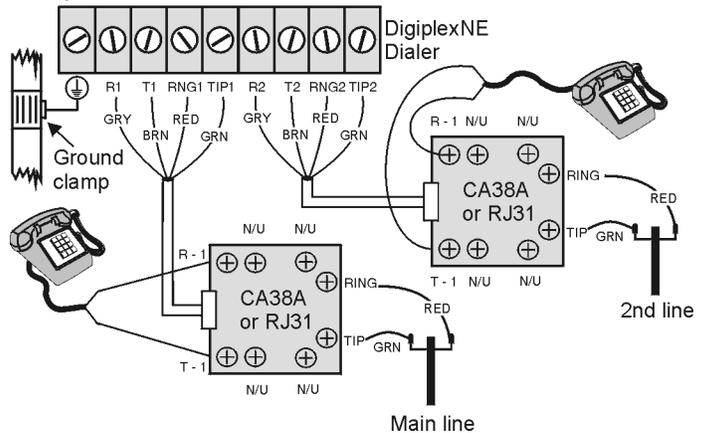
Example 2:



Example 3:



Example 4:



PROGRAMMING METHODS

DigiplexNE can be programmed using the following methods:

4.1 WINLOAD UPLOADING/DOWNLOADING SOFTWARE

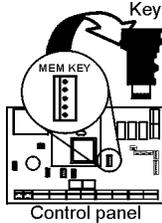
We highly recommend programming the control panel with WinLoad as it greatly simplifies the process and reduces potential data errors. Refer to *Winload Software* on page 43 for details.

4.2 PARADOX MEMORY KEY

The Paradox Memory Key can copy the programmed contents of one control panel into as many others as needed. Downloading is completed in less than 5 seconds.

Copy to Memory Key

- 1) Place the Memory Key on the control panel's connector labeled MEM KEY. Make sure that the write protect jumper is on.
- 2) Enter section:
[4020] to copy the control panel's contents **except** sections [0001] to [0096] and [0501] to [0532] to the key.
[4021] to copy the control panel's contents **including** sections [0001] to [0096] and [0501] to [0532] to the key.
- 3) When the keypad emits a Confirmation Beep, remove the Memory Key. Remove the jumper to prevent accidentally overwriting the Memory Key's contents.



Download to Control Panel

- 1) Place the Memory Key on the control panel's connector labeled MEM KEY.
- 2) Enter section:
[4010] to download the Memory Key's contents **except** sections [0001] to [0096] and [0501] to [0532] to the control panel.
[4011] to download the contents of the Memory Key **including** sections [0001] to [0096] and [0501] to [0532] to the control panel.
- 3) When the keypad emits a Confirmation Beep, remove the Memory Key.

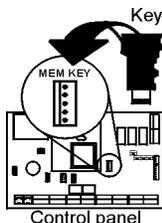
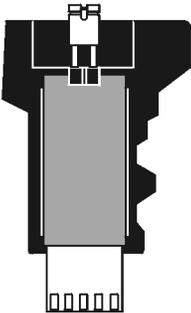
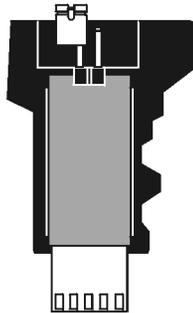


Figure 4-1: Using the Memory Key

Jumper ON =
Can copy and download
contents of the Memory Key



Jumper OFF =
Cannot override contents
of the Memory Key



4.3 MODULE BROADCAST

Keypads and other modules with GuardWall technology can also be programmed easily by using Module Broadcast (see section 12.14 on page 36). Once a module is programmed, its sections can be sent to other similar modules through the communication network.

4.4 PROGRAMMING THROUGH A KEYPAD

Use the *Programming Guide* to record how the sections were programmed. To enter programming mode:

- 1) Press and hold the **[0]** key
- 2) Key in the **[INSTALLER CODE]** (Default is 000000)
- 3) Key in the 4-digit **[SECTION]**
- 4) Key in required **[DATA]**. Refer to the *Programming Guide* or to the corresponding sections in this manual.

The control panel will save the data and automatically advance to the next section or press the **[ENTER]** key to save the data and advance to the next section. Press the **[CLEAR]** key to revert to the preceding step or to erase the current data entry.

4.4.1 Feature Select Programming

Most of the options are programmed using the Feature Select Method, where each number from 1 to 8 corresponds to a specific feature or option. Set these options by turning the number corresponding to the feature ON or OFF. The option is considered ON when the number appears within the brackets on the LCD keypad. Turn options ON and OFF by pressing the corresponding keys on the keypad. Press the keys as many times as needed to select the desired options and then press **[ENTER]** to save.

4.4.2 Decimal Programming

Certain sections may require the entry of a 3-digit decimal value from 000 to 255.

4.4.3 Hexadecimal Programming

Certain sections may require the entry of one or more Hexadecimal values from 0 to F. Press:

- | | | | |
|--------------------|------------------------------|---------------------|-----|
| [0] to [9] | = values 0 to 9 respectively | | |
| [STAY] key | = A | [DISARM] key | = D |
| [FORCE] key | = B | [BYP] key | = E |
| [ARM] key | = C | [MEM] key | = F |

4.5 MODULE PROGRAMMING MODE

All modules are programmed through any keypad in the system. To do so, enter *Module Programming Mode*:

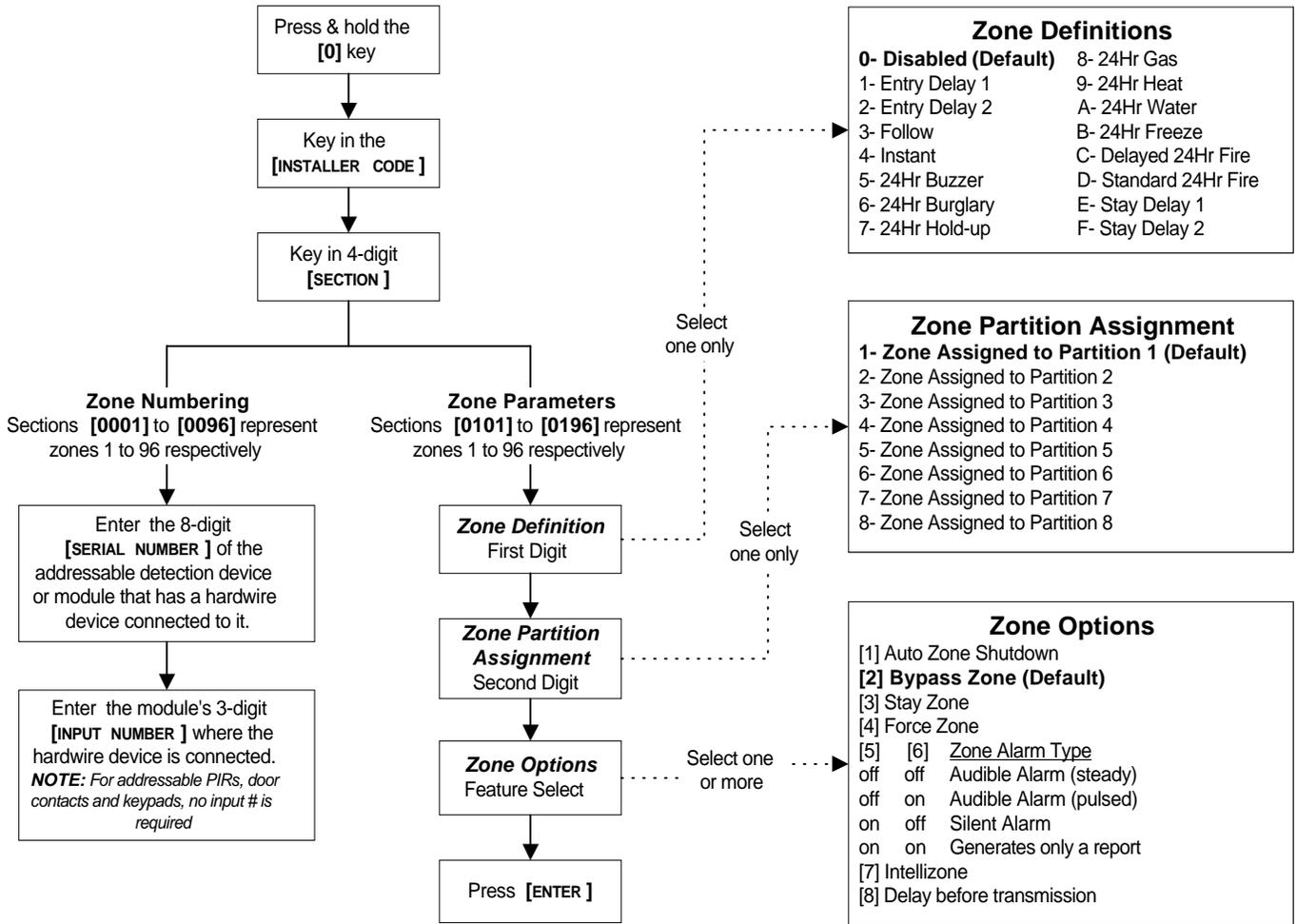
- 1) Press and hold the **[0]** key
- 2) Key in the **[INSTALLER CODE]** (Default is 000000)
- 3) Key in section **[4003]**
- 4) Key in 8-digit **[SERIAL NUMBER]** of the module
- 5) Key in 3-digit **[SECTION]** and required **[DATA]**. Refer to the *Module Programming Guide* for details.

The control panel will redirect all programming to the selected module. To exit the Module Programming Mode, press the **[CLEAR]** key as many times as needed to return to the desired screen. The module's serial number can be located on the module's PC board.

ZONE PROGRAMMING

All detection devices connected to the control panel, keypads and zone expansion modules must be assigned to a zone and that zone must be defined as described in this section.

Figure 5-1: Zone Programming



5.1 ZONE NUMBERING

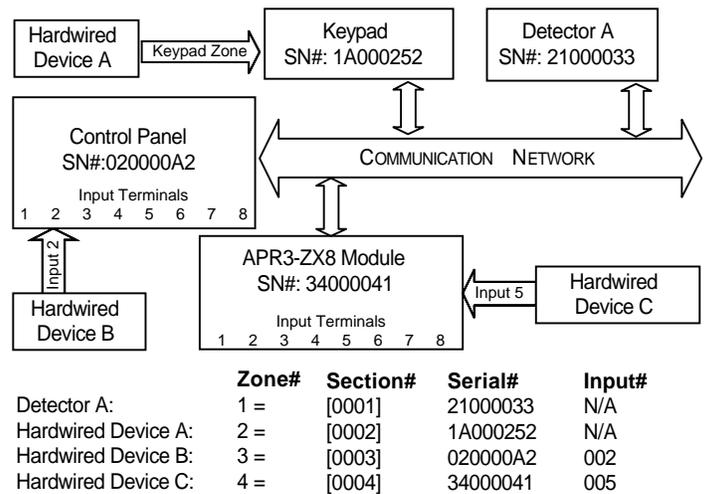
SECTIONS [0001] TO [0096]

The Zone Numbering feature is used to individually assign each detection device to any zone in the DigiplexNE system (see Figure 5-1). The Zone Parameters define the type of zone, the zone's partition assignment and how the control panel will react when an alarm occurs on that zone (see section 5.3 to section 5.5).

- To assign an addressable PIR or door contact with GuardWall technology connected to the communication network, program the module's serial number into the section corresponding to the desired zone (i.e. program zone 34 in section [0034]).
- To assign a detection device connected to a module or control panel's hardwired input terminal, program the module's or control panel's serial number and the input number where the device is connected into the section corresponding to the desired zone. See the *Module Programming Guide* for details of its input numbers (input numbers not required for keypad zones).

! If PGM1 is defined as a smoke detector input (see section 11.6), the control panel will recognize it as input # 255.

Figure 5-2: Zone Numbering



5.2 ZONE DOUBLING (ATZ)

SECTION [3033]: OPTION [8]

(Default = disabled) The ATZ feature is a software oriented feature that enables two detection devices to be installed per hardwired input terminal (section 3.15 on page 13 and see section 3.14 on page 13). Each detection device has its own zone, displays its zone status on the keypad and sends its own alarm codes. Fire Zones cannot be doubled.

Input	Doubled Zone Input
Input 01	Input 13 (ATZ of Input 01)
Input 02	Input 14 (ATZ of Input 02)
Input 03	Input 15 (ATZ of Input 03)
Input 04	Input 16 (ATZ of Input 04)
Input 05	Input 17 (ATZ of Input 05)
Input 06	Input 18 (ATZ of Input 06)
Input 07	Input 19 (ATZ of Input 07)
Input 08	Input 20 (ATZ of Input 08)
Input 09 (DGP2-ZX4 Input 01)	Input 21 (ATZ of Input 09)
Input 10 (DGP2-ZX4 Input 02)	Input 22 (ATZ of Input 10)
Input 11 (DGP2-ZX4 Input 03)	Input 23 (ATZ of Input 11)
Input 12 (DGP2-ZX4 Input 04)	Input 24 (ATZ of Input 12)

5.3 ZONE DEFINITIONS

The 16 zone definitions from Figure 5-1 on page 16 are described below. When an alarm occurs, the control panel can send a report, activate the bell output and display the alarm in the Alarm Memory.

5.3.1 Zone Disabled

SECTIONS [0101] TO [0196]: FIRST DIGIT = 0

Disables the corresponding zone. Zones are disabled by default.

5.3.2 Entry Delays 1 and 2

SECTIONS [0101] TO [0196]: FIRST DIGIT = 1 AND 2

(Default Entry Delay 1 = 030, Entry Delay 2 = 060) When an armed zone defined as an Entry Delay opens, the control panel will not generate an alarm until the Entry Delay Timer elapses. A zone defined as Entry Delay 1 follows the Entry Delay 1 Timer of its assigned partition. Likewise, a zone defined as Entry Delay 2 follows the Entry Delay 2 Timer of its assigned partition.

For example, if zone 1 is assigned to Partition 5 and is defined as Entry Delay 1, the timer follows the amount programmed in [3511].

Each partition includes two Entry Delay Timers. To program an Entry Delay Timer, key in the desired 3-digit delay value (001 to 255 seconds) into the corresponding section.

Partition 1 Entry Delay 1 Timer: [3111] Entry Delay 2 Timer: [3112]	Partition 5 Entry Delay 1 Timer: [3511] Entry Delay 2 Timer: [3512]
Partition 2 Entry Delay 1 Timer: [3211] Entry Delay 2 Timer: [3212]	Partition 6 Entry Delay 1 Timer: [3611] Entry Delay 2 Timer: [3612]
Partition 3 Entry Delay 1 Timer: [3311] Entry Delay 2 Timer: [3312]	Partition 7 Entry Delay 1 Timer: [3711] Entry Delay 2 Timer: [3712]
Partition 4 Entry Delay 1 Timer: [3411] Entry Delay 2 Timer: [3412]	Partition 8 Entry Delay 1 Timer: [3811] Entry Delay 2 Timer: [3812]

Entry Delay zones are commonly used at the entry/exit points (i.e. front/back door or garage). Using different Entry Delays is useful when one entry point requires a longer delay than another.



These are the same timers used for Stay Delay zones (see section 5.3.14).

5.3.3 Follow Zones

SECTIONS [0101] TO [0196]: FIRST DIGIT = 3

If an armed Follow zone opens, the control panel generates an alarm. If an armed Entry Delay zone (see section 5.3.2) opens before the Follow zone, the control panel waits until the end of the Entry Delay before generating an alarm. If more than one Entry Delay zone opens before the Follow zone, the control panel waits until the end of the first Entry Delay before generating an alarm. This feature is commonly used when a motion detector is protecting the area occupied by the entry point keypad. This will prevent the motion detector from causing an alarm when a user enters through the entry point to disarm the system.

5.3.4 Instant Zones

SECTIONS [0101] TO [0196]: FIRST DIGIT = 4

When an armed Instant zone opens, the control panel immediately generates an alarm. Instant zones are commonly used for windows, patio doors, skylights and other perimeter type zones.

5.3.5 24Hr Buzzer Zones

SECTIONS [0101] TO [0196]: FIRST DIGIT = 5

Whenever a 24Hr Buzzer zone opens, whether the zone is armed or disarmed, the control panel activates the keypad buzzer to indicate that the zone was breached. The control panel will report the alarm, but will not enable the bell/siren output. Enter any valid access code on the keypad to stop the buzzer.



The keypads must be assigned to the same partition as the 24Hr Buzzer zone or the buzzer will not activate.

5.3.6 24Hr Burglary Zones

SECTIONS [0101] TO [0196]: FIRST DIGIT = 6

When a 24Hr Burglary zone opens, whether the system is armed or disarmed, the control panel will immediately generate a burglary alarm.

5.3.7 24Hr Hold-up Zones

SECTIONS [0101] TO [0196]: FIRST DIGIT = 7

When a 24Hr Hold-up zone opens, whether it is armed or disarmed, the control panel will immediately generate an alarm. The SIA FSK reporting format includes specific codes to identify the alarm as a Hold-up Alarm.

5.3.8 24Hr Gas Zones

SECTIONS [0101] TO [0196]: FIRST DIGIT = 8

When a 24Hr Gas zone opens, whether it is armed or disarmed, the control panel will immediately generate an alarm. The SIA FSK reporting format includes specific codes to identify the alarm as a Gas Alarm.

5.3.9 24Hr Heat Zones

SECTIONS [0101] TO [0196]: FIRST DIGIT = 9

When a 24Hr Heat zone opens, whether it is armed or disarmed, the control panel will immediately generate an alarm. The SIA FSK reporting format includes specific codes to identify the alarm as a Heat Alarm.

5.3.10 24Hr Water Zones

SECTIONS [0101] TO [0196]: FIRST DIGIT = A

When a 24Hr Water zone opens, whether it is armed or disarmed, the control panel will immediately generate an alarm. The SIA FSK reporting format includes specific codes to identify the alarm as a Water Alarm.

5.3.11 24Hr Freeze Zones

SECTIONS [0101] TO [0196]: FIRST DIGIT = B

When a 24Hr Freeze zone opens, whether it is armed or disarmed, the control panel will immediately generate an alarm. The SIA FSK reporting format includes specific codes to identify the alarm as a Freeze Alarm.

5.3.12 Delayed 24Hr Fire Zone

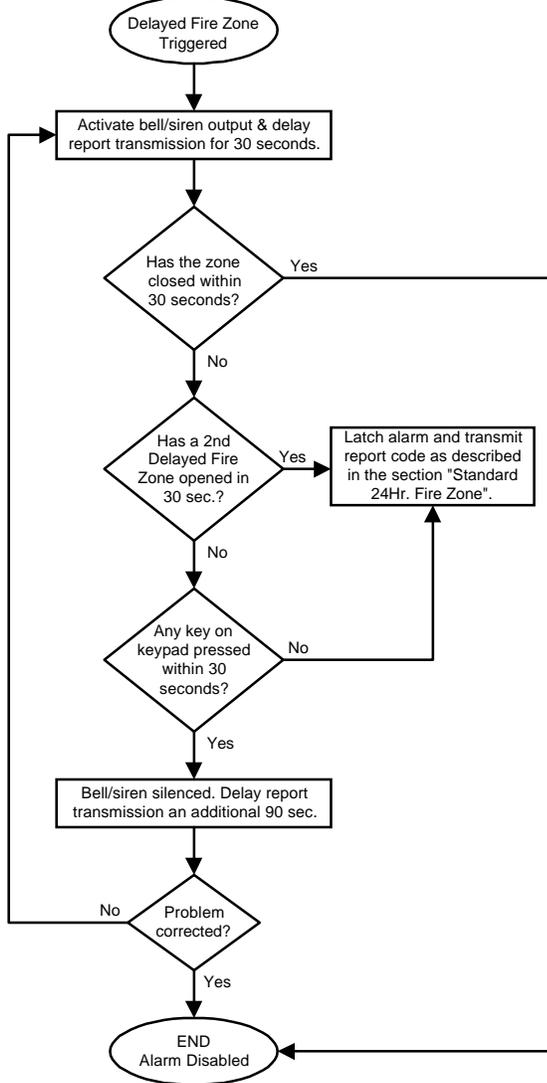
SECTIONS [0101] TO [0196]: FIRST DIGIT = C

The Delayed 24Hr Fire Zone definition from Figure 5-3: on page 18 is commonly used in residential homes where a smoke detector often generates false alarms (i.e. cigarette smoke, burning bread, etc.). A zone programmed as Fire becomes normally open (will not function as normally closed) and requires an EOL resistor.



The keypads must be assigned to the same partition as the Delayed 24Hr Fire zone for the buzzer to activate.

Figure 5-3: Delayed 24Hr Fire Zone



5.3.13 Standard 24Hr Fire Zone

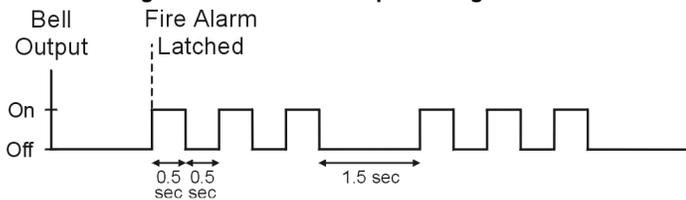
SECTIONS [0101] TO [0196]: FIRST DIGIT = D

A zone programmed as Fire becomes normally open (will not function as normally closed) and requires an EOL resistor.

When a Standard 24Hr Fire Zone triggers, the control panel can:

- send a *Zone Alarm* report code (see section 9.2.1 on page 28).
- send a *Fire Loop Trouble Report* (see section 9.2.11 on page 29) if a tamper/wiring fault occurs on a Fire Zone. A "Zone Fault Trouble" will also appear in the keypad's Trouble Display.
- generate a Fire alarm, which is always audible, regardless of other settings. Fire alarms generate an intermittent signal (see Figure 5-4).

Figure 5-4: Bell/Siren Output During Fire Alarm



5.3.14 Stay Delay Zone

SECTIONS [0101] TO [0196]: FIRST DIGIT = E AND F

When a Stay Delay zone is armed using the Regular or Force arming methods, the control panel processes the zone as an Instant zone (see section 5.3.4). When a Stay Delay zone is armed using the Stay or Instant arming methods and the zone is triggered, the control panel will not generate an alarm until the programmed Stay Delay elapses. A zone defined as Stay Delay 1 follows the Entry Delay 1 Timer of its assigned partition. Likewise, a zone defined as Stay Delay 2 follows the Entry Delay 2 Timer of its assigned partition. To program the Entry Delay Timers, refer to *Entry Delays 1 and 2* on page 17.

For example, if zone 1 in Partition 5 is defined as Stay Delay 1, the timer will follow the amount programmed in [3511].

5.4 ZONE PARTITION ASSIGNMENT

SECTIONS [0101] TO [0196]: SECOND DIGIT = 1 TO 8

A control panel can be divided into eight completely independent systems (see section 12.7 on page 35). Assign each zone to one partition (see Figure 5-1 on page 16).

5.5 ZONE OPTIONS

The zone options from Figure 5-1 on page 16 are described below.

5.5.1 Auto Zone Shutdown

SECTIONS [0101] TO [0196]: OPTION [1]

(Default = 000) When option [1] is disabled, the control panel generates an alarm when an armed zone is breached even if the same zone opens repeatedly during the same alarm, which may cause several reportings and further activation of the bell output. When option [1] is enabled, the control panel will stop regenerating alarms on the zone during the same armed period once the Auto Zone Shutdown Limit is reached. The Auto Zone Shutdown Limit resets every time the system is armed. To program the Auto Zone Shutdown Limit, key in the desired 3-digit counter (000 to 255) into section corresponding to the desired partition (000 = disabled):

Partition 1: [3114]	Partition 5: [3514]
Partition 2: [3214]	Partition 6: [3614]
Partition 3: [3314]	Partition 7: [3714]
Partition 4: [3414]	Partition 8: [3814]

5.5.2 Bypass Zones

SECTIONS [0101] TO [0196]: OPTION [2]

Only zones with option [2] enabled can be Manually Bypassed (see section 16.6). Fire Zones cannot be bypassed. Default = enabled.

5.5.3 Stay Zones

SECTIONS [0101] TO [0196]: OPTION [3]

Only zones with option [3] enabled will be bypassed when the partition is Stay Armed (see section 16.2) or Instant Armed (see section 16.3). All other zones will remain activated. Fire Zones cannot be set as Stay Zones.

5.5.4 Force Zones

SECTIONS [0101] TO [0196]: OPTION [4]

Only zones with option [4] enabled can be bypassed when the partition is Force armed (see section 16.4). Fire Zones cannot be Force Zones.

5.5.5 Alarm Types

SECTIONS [0101] TO [0196]: OPTIONS [5] & [6]

Option	Feature	Description
[5]	[6]	
OFF	OFF	Steady Alarm sends the report code and activates the bell output
ON	OFF	Pulsed Alarm sends the report code and pulses the bell output (see Figure 5-4 on page 18)
OFF	ON	Silent Alarm sends the report code, but the bell output is not activated. Partition must be disarmed.
ON	ON	Report Only sends the report code. Disarming is not required. Fire Zones cannot be <i>Report Only</i> .

5.5.6 Intellizone

SECTIONS [0101] TO [0196]: OPTION [7]

(Default = 010) If an alarm condition occurs on a zone with option [7] enabled, the control panel triggers the Intellizone Delay and seeks confirmation of the alarm situation before generating an alarm. Fire Zones cannot be set as Intellizones. An alarm will only be generated if one of the following conditions occurs during the Intellizone Delay:

- 1) An alarm occurs on another zone defined as Intellizone.
- 2) The zone in alarm restores and reoccurs.
- 3) The zone stays in alarm for the entire Intellizone Delay.

Key in the desired 3-digit delay value (010 to 255 seconds) into the section corresponding to the desired partition (000 = 10 seconds):

Partition 1: [3110]	Partition 3: [3310]	Partition 5: [3510]	Partition 7: [3710]
Partition 2: [3210]	Partition 4: [3410]	Partition 6: [3610]	Partition 8: [3810]

5.5.7 Delay Before Alarm Transmission

SECTIONS [0101] TO [0196]: OPTION [8]

(Default = 000) When an alarm condition occurs on a zone with option [8] enabled, the control panel activates the bell output, but will not report the alarm to the Monitoring Station until the end of the Alarm Transmission Delay. During this period, disarming the system cancels any report originating from this zone. To program the Alarm Transmission Delay, key in the desired value (000 to 255 seconds, 000 = instant) into section [3055]. This feature is commonly used with Entry Delay zones to reduce false alarms created by new users who may not disarm the system in time.

5.6 INPUT SPEED

(001 to 255 X 30msec, default: 600ms)

The Input Speed defines how quickly the control panel responds to an open zone detected on any hardwired input terminal (does not apply to addressable motion detectors and door contacts with GuardWall technology). All other zone definitions and options do not come into effect until the Input Speed elapses. The control panel will not display and/or respond to an open zone until the Input Speed elapses to prevent glitches from causing an alarm or unnecessary reporting.

For example, if an armed zone with an Input Speed of 600ms opens and closes in less than 600ms, the control panel will not respond (i.e. no reporting, no alarm and no display on the keypad).

Set the Input Speed (001 to 255 X 30ms, default = 600msec.):

Section	Input	Section	Input
[0961]	Input 01	[0973]	Input 13 (ATZ of Input 01)
[0962]	Input 02	[0974]	Input 14 (ATZ of Input 02)
[0963]	Input 03	[0975]	Input 15 (ATZ of Input 03)
[0964]	Input 04	[0976]	Input 16 (ATZ of Input 04)
[0965]	Input 05	[0977]	Input 17 (ATZ of Input 05)
[0966]	Input 06	[0978]	Input 18 (ATZ of Input 06)
[0967]	Input 07	[0979]	Input 19 (ATZ of Input 07)
[0968]	Input 08	[0980]	Input 20 (ATZ of Input 08)

Set the Input Speeds for the optional 4-Zone Hardwire Module, DGP2-ZX4:

Section	Input
[0969]	Input 09 (DGP2-ZX4 Input 01)
[0970]	Input 10 (DGP2-ZX4 Input 02)
[0971]	Input 11 (DGP2-ZX4 Input 03)
[0972]	Input 12 (DGP2-ZX4 Input 04)
[0981]	Input 21 (ATZ of DGP2-ZX4 Input 01)
[0982]	Input 22 (ATZ of DGP2-ZX4 Input 02)
[0983]	Input 23 (ATZ of DGP2-ZX4 Input 03)
[0984]	Input 24 (ATZ of DGP2-ZX4 Input 04)

5.7 EOL ON HARDWIRE ZONES

SECTION [3033]: OPTION [7]

(Default = disabled) If detection devices connected to hardwired input terminals use 1kΩ end of line resistors, enable option [7] in section [3033]. For details on using EOL resistors, refer to *Addressable Zone Connections* on page 12 and *Double Zone Connections* on page 13.

5.8 KEYPAD NUMBERING

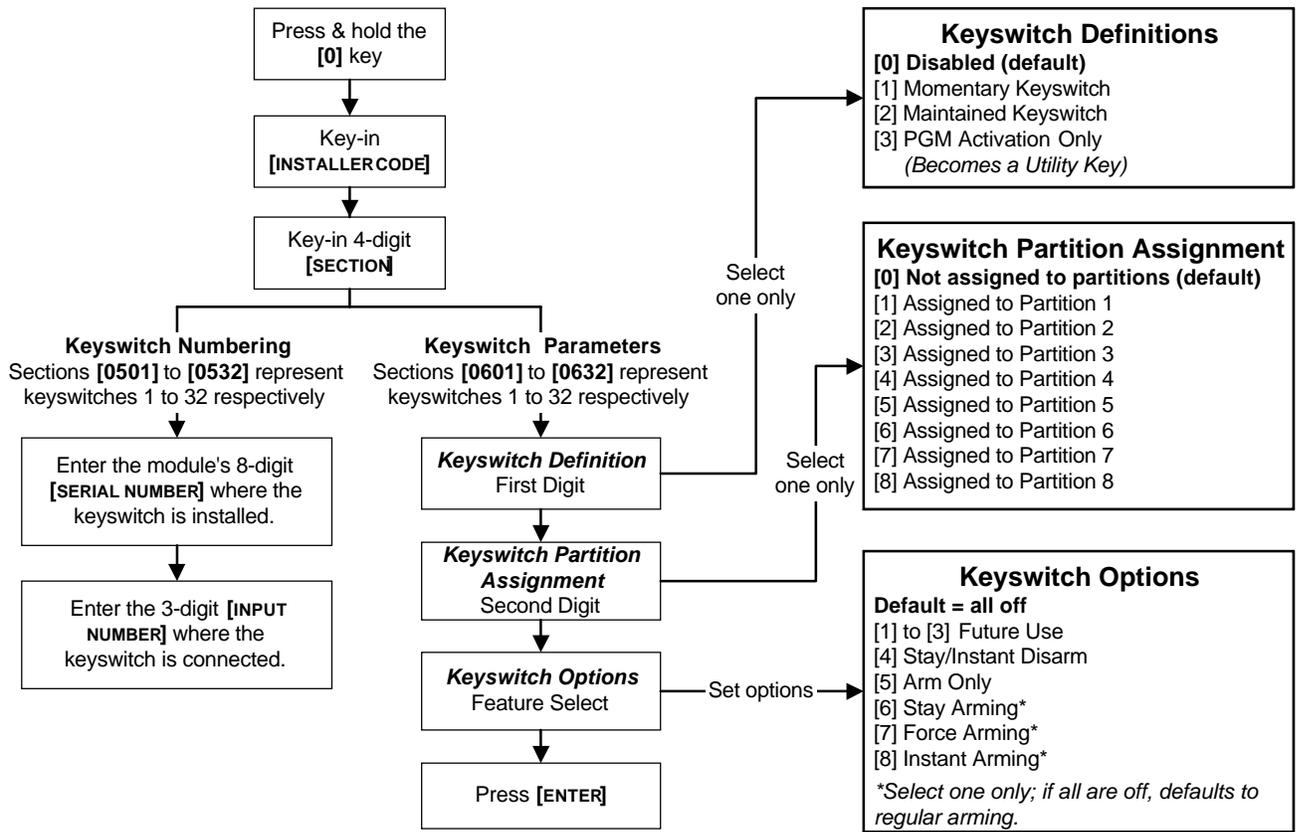
SECTIONS [2801] TO [2832]

Keypad Numbering is only used to identify the keypad in the event buffer. When Keypad Numbering is not used, the event buffer will then display any events pertaining to any keypad as Keypad 00. When Keypad Numbering is used, each keypad is identified by a specific number. The keypad is assigned to a Keypad Number from 1 to 32 through the keypad's serial number in sections [2801] to [2832]. Enter the 8-digit serial keypad serial number in the desired section.

KEYSWITCH PROGRAMMING

The DigiplexNE control panel can support up to 32 keyswitch zones in addition to the 96 standard zones. A keyswitch allows a user to arm or disarm a system by pressing a key or by toggling a keyswitch. The keyswitches are connected to the hardwired input terminals of either the control panel, zone expansion modules or the keypad. For installation instructions, see section 3.9 on page 9. Keyswitches must be programmed as described in this section (see Figure 6-1).

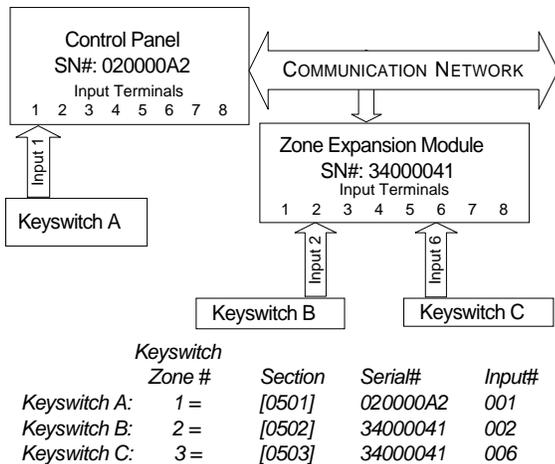
Figure 6-1: Keyswitch Programming



6.1 KEYSWITCH NUMBERING

SECTIONS [0501] TO [0532]
 Keyswitch Numbering allows you to assign any hardwired input in the system to any of the 32 keyswitch zones in the control panel. It identifies where the keyswitch is connected and which keyswitch zone is assigned to the keyswitch (see Figure 6-2).

Figure 6-2: Example of Keyswitch Numbering



6.2 KEYSWITCH DEFINITIONS

Keyswitch Definitions determine how the control panel reacts when a keyswitch is activated.

6.2.1 Keyswitch Disabled

SECTIONS [0601] TO [0632]: FIRST DIGIT = 0
 Disables keyswitch input.

6.2.2 Momentary Keyswitch

SECTIONS [0601] TO [0632]: FIRST DIGIT = 1
 To arm a partition using the Momentary Keyswitch, turn on the keyswitch for approximately three seconds then turn it off. Repeating this sequence will disarm the system. The selected Keyswitch Option (see section 6.4) determines the type of arming.

6.2.3 Maintained Keyswitch

SECTIONS [0601] TO [0632]: FIRST DIGIT = 2
 To arm a partition using the Maintained Keyswitch, turn the switch from the ON to the OFF position. To disarm a partition set the keyswitch in the ON position. The selected Keyswitch Option (see section 6.4) determines the type of arming. If the keyswitch's Arm Only option is enabled, the control panel will not perform any action when the switch is in the on position.

6.2.4 PGM Activation (Utility Key)

SECTIONS [0601] TO [0632]: FIRST DIGIT = 3

When option [3] is enabled, the keyswitch can activate a PGM. When a keyswitch is defined with the PGM Activation option, the Keyswitch Partition Assignment and Keyswitch Options are disabled. To program a Keyswitch to activate a PGM:

- 1) Program the Activation Event of a PGM output with the *Utility Key* Event corresponding to the desired keyswitch (see *PGM Programming Table* in the Programming Guide: Event Group 048).
- 2) Enable option [3] in the section corresponding to the desired keyswitch.

If the Utility Key events from 1 to 8 are chosen as Activation Events, the PGM will activate whether the keyswitch or the keys on the keypad are used. Utility Key events from 9 to 32 are only generated when keyswitches from 9 to 32 with this option enabled are used:

Utility Key Event	Keypad	Keyswitch
1	Keys [1] & [2]	1
2	Keys [4] & [5]	2
3	Keys [7] & [8]	3
4	Keys [CLEAR] & [0]	4
5	Keys [2] & [3]	5
6	Keys [5] & [6]	6
7	Keys [8] & [9]	7
8	Keys [0] & [ENTER]	8
9 to 32	---	9 to 32

6.3 KEYSWITCH PARTITION ASSIGNMENT

SECTIONS [0601] TO [0632]: SECOND DIGIT = 1 TO 8

The control panel provides the option of partitioning the security system into eight completely independent systems. Therefore, each keyswitch must be assigned to one partition as shown in Figure 6-1 on page 20. For details on Partitioning, see section 12.7 on page 35.

6.4 KEYSWITCH OPTIONS

Each keyswitch zone can be programmed with one or more of the options below as shown in Figure 6-1 on page 20.

6.4.1 Stay/Instant Disarm Option (Keyswitch)

SECTIONS [0601] TO [0632]: OPTION [4]

When option [4] is enabled, the keyswitch can only disarm assigned Stay or Instant Armed partitions. The Arm Only Option (see section 6.4.2) must be disabled for this feature to function. When option [4] is disabled, the keyswitch can disarm partitions armed using any arming method.

6.4.2 Arm Only (Keyswitch)

SECTIONS [0601] TO [0632]: OPTION [5]

When option [5] is enabled, the keyswitch can arm assigned partitions, but cannot disarm any partitions. The type of arming is determined by the other Keyswitch Options selected.

6.4.3 Regular Arming (Keyswitch)

SECTIONS [0601] TO [0632]: OPTION [6] TO [8]

When options [6] to [8] are disabled, the keyswitch arming option will default to Regular Arming (see section 16.1).

6.4.4 Stay Arming (Keyswitch)

SECTIONS [0601] TO [0632]: OPTION [6]

Activating the keyswitch will bypass any zones defined as Stay Zones (see section 5.5.3) in the selected partition. All other zones will remain activated. For more information on Stay Arming, refer to section 16.2.

6.4.5 Force Arming (Keyswitch)

SECTIONS [0601] TO [0632]: OPTION [7]

Activating the keyswitch will arm the selected partition bypassing any open zones defined as Force Zones (see section 5.5.4) at the time of arming. For more information on Force Arming, refer to section 16.4.

6.4.6 Instant Arming (Keyswitch)

SECTIONS [0601] TO [0632]: OPTION [8]

This option is identical to Stay Arming except that all armed zones will become Instant Zones (see section 5.3.4). For more information on Instant Arming, refer to section 16.3.



Only one of the arming options (Stay, Force, Instant and Regular) can be selected.

ARMING & DISARMING OPTIONS

7.1 ARMING FOLLOWS PARTITION

(Default = disabled) A partition can be set to follow the arming and disarming status of one or more partitions. If a partition is set to follow more than one partition, the partition will arm when all the selected partitions are armed. However, the partition will disarm as soon as one of the selected partitions is disarmed.

For example, if options [2] and [3] are ON in section [3121], Partition 1 will automatically arm whenever partitions 2 and 3 are armed. Partition 1 will disarm when either partition 2 or partition 3 is disarmed.

Partition 1: [3121] Partition 1 arms & disarms with: Option [1] = N/A Option [2] = Partition 2 Option [3] = Partition 3 Option [4] = Partition 4 Option [5] = Partition 5 Option [6] = Partition 6 Option [7] = Partition 7 Option [8] = Partition 8	Partition 5: [3521] Partition 5 arms & disarms with: Option [1] = Partition 1 Option [2] = Partition 2 Option [3] = Partition 3 Option [4] = Partition 4 Option [5] = N/A Option [6] = Partition 6 Option [7] = Partition 7 Option [8] = Partition 8
Partition 2: [3221] Partition 2 arms & disarms with: Option [1] = Partition 1 Option [2] = N/A Option [3] = Partition 3 Option [4] = Partition 4 Option [5] = Partition 5 Option [6] = Partition 6 Option [7] = Partition 7 Option [8] = Partition 8	Partition 6: [3621] Partition 6 arms & disarms with: Option [1] = Partition 1 Option [2] = Partition 2 Option [3] = Partition 3 Option [4] = Partition 4 Option [5] = Partition 5 Option [6] = N/A Option [7] = Partition 7 Option [8] = Partition 8
Partition 3: [3321] Partition 3 arms & disarms with: Option [1] = Partition 1 Option [2] = Partition 2 Option [3] = N/A Option [4] = Partition 4 Option [5] = Partition 5 Option [6] = Partition 6 Option [7] = Partition 7 Option [8] = Partition 8	Partition 7: [3721] Partition 7 arms & disarms with: Option [1] = Partition 1 Option [2] = Partition 2 Option [3] = Partition 3 Option [4] = Partition 4 Option [5] = Partition 5 Option [6] = Partition 6 Option [7] = N/A Option [8] = Partition 8
Partition 4: [3421] Partition 4 arms & disarms with: Option [1] = Partition 1 Option [2] = Partition 2 Option [3] = Partition 3 Option [4] = N/A Option [5] = Partition 5 Option [6] = Partition 6 Option [7] = Partition 7 Option [8] = Partition 8	Partition 8: [3821] Partition 8 arms & disarms with: Option [1] = Partition 1 Option [2] = Partition 2 Option [3] = Partition 3 Option [4] = Partition 4 Option [5] = Partition 5 Option [6] = Partition 6 Option [7] = Partition 7 Option [8] = N/A

7.2 RESTRICT ARMING ON SUPERVISION LOSS

SECTION [3034]: OPTION [4]

(Default = disabled) When option [4] is enabled, the control panel can restrict arming if it receives a supervision loss signal from the Omnia 433MHz Wireless System OMN-RCV3 (see section 8.3). Partitions will not arm until all supervision loss trouble conditions are corrected.

7.3 RESTRICT ARMING ON TAMPER

SECTION [3034]: OPTION [8]

(Default = disabled) When option [8] is enabled, the control panel prevents arming if it detects a tamper on a zone or module (see section 8.5).

Partitions will not arm until the Installer Code is entered and tamper trouble conditions are corrected.

7.4 RESTRICT ARMING ON AC FAILURE

SECTION [3035]: OPTION [1]

(Default = disabled) When option [1] is enabled, the control panel can prevent arming if it detects a loss of AC power. Partitions will not arm until power is restored.

7.5 RESTRICT ARMING ON BATTERY FAILURE

SECTION [3035]: OPTION [2]

(Default = disabled) When option [2] is enabled, the control panel prevents arming if it detects a battery loss or if the battery voltage is less than 10.5V. The control panel will not arm a partition until all battery trouble conditions are corrected.

7.6 RESTRICT ARMING ON BELL OR AUXILIARY FAILURE

SECTION [3035]: OPTION [3]

(Default = disabled) When option [3] is enabled, the control panel can prevent arming if it detects that:

- the bell or siren is disconnected
- the Bell Output has exceeded its current limits
- the Auxiliary Outputs have exceeded their current limits

The control panel will not arm any partition until all bell or auxiliary trouble conditions are corrected.

7.7 RESTRICT ARMING ON TLM FAILURE

SECTION [3035]: OPTION [4]

(Default = disabled) When option [4] is enabled, the control panel can prevent arming if it is unable to access the telephone line. The control panel will not arm any partition until all TLM trouble conditions are corrected.

7.8 RESTRICT ARMING ON MODULE TROUBLES

SECTION [3035]: OPTION [5]

(Default = disabled) When option [5] is enabled, the control panel will monitor the same Restrict Arming options selected for the control panel (battery, tamper, supervision, AC, bell, auxiliary and/or TLM failures) for the modules connected to the communication network. The control panel will prevent arming if the control panel detects the equivalent trouble condition occurring on a module.

For example, if options [1], [2] and [5] are ON in section [3035], the control panel prevents arming if it detects an AC or battery failure on the control panel or on a module connected to the communication network.

7.9 TIMED AUTO-ARMING

(Default = disabled) When this option is enabled, the control panel arms the selected partition every day at the time set by the Auto-Arm Timer (see section 7.9.1). A 60-second Exit Delay triggers before the partition arms, but Auto-Arming can be cancelled by entering a valid access code. The *Auto-Arming Option* sets the arming method (see section 7.11). If zones are open when a partition is Auto-Armed, the control panel arms the partition and considers all open zones as temporarily bypassed (except 24hr. zones).

When the partition Auto-Arms, the control panel transmits the *Auto-Arming* report code programmed in section [3910]. Whether the partition was successfully armed or not, the control panel will always transmit the *Late to Close* report code programmed in section [3912]. Enable option [1] in the desired section:

Partition 1: [3122]	Partition 3: [3322]	Partition 5: [3522]	Partition 7: [3722]
Partition 2: [3222]	Partition 4: [3422]	Partition 6: [3622]	Partition 8: [3822]

7.9.1 Auto-Arm Timer

When Timed Auto-Arming is enabled (see section 7.9), the control panel will attempt to arm the system at the time set by the Auto-Arm Timer.

For example, to Auto-Arm partition 2 everyday at 6:15PM, enable option [1] in section [3222] (Timed Auto-Arming) and enter 18:15 in section [3201].

Enter the time when the partition should arm in the desired section:

Partition 1: [3101]	Partition 3: [3301]	Partition 5: [3501]	Partition 7: [3701]
Partition 2: [3201]	Partition 4: [3401]	Partition 6: [3601]	Partition 8: [3801]

7.10 No Movement Auto-Arming

(Default = disabled) If no movement occurs in a partition for the period specified by the No Movement Timer (see section 7.10.1), the control panel will automatically arm that partition. The Auto-Arming Option determines the arming method (see section 7.11). The control panel will transmit the *No Movement* report code programmed in section [3913] upon arming. Whether the partition was successfully armed or not, the control panel will always transmit the *Late to Close* report code [3912]. Enable option [2] in the desired section:

Partition 1: [3122]	Partition 3: [3322]	Partition 5: [3522]	Partition 7: [3722]
Partition 2: [3222]	Partition 4: [3422]	Partition 6: [3622]	Partition 8: [3822]

7.10.1 No Movement Timer

(Default = 000) If *No Movement Auto-Arming* is enabled (see section 7.10), the control panel will attempt to arm the system if no movement has occurred for the period specified by the *No Movement Timer*. Select the section corresponding to the desired partition and program the time without movement necessary before the control panel will arm and/or send the *No Movement* report code. If No Movement Auto-Arming is disabled, the control panel can still send the *No Movement* report code.

For example, to arm partition 1 when no movement occurs for 4 hours, enable option [2] in section [3122] (*No Movement Auto-Arm for partition 1*) and enter 016 (16 x 15min. = 240min. = 4 hours) in section [3107].

Enter the time period (001 to 255 x 15 minutes, 000 = disabled) when the partition should arm in the desired section:

Partition 1: [3107]	Partition 3: [3307]	Partition 5: [3507]	Partition 7: [3707]
Partition 2: [3207]	Partition 4: [3407]	Partition 6: [3607]	Partition 8: [3807]

7.11 AUTO-ARMING OPTIONS

(Default = disabled) When using the Auto-Arming Features (see section 7.9 and section 7.10), the control panel can Force Arm (see section 16.4) or Stay Arm (see section 16.2) the partitions. To Auto-Arm using Stay Arming, enable option [3] in the desired section:

Partition 1: [3122]	Partition 3: [3322]	Partition 5: [3522]	Partition 7: [3722]
Partition 2: [3222]	Partition 4: [3422]	Partition 6: [3622]	Partition 8: [3822]

7.12 SWITCH TO STAY ARMING

If no Entry Delay zones are opened and closed during the Exit Delay after Regular Arming a partition, the control panel can switch from Regular Arming to Stay Arming. Enable the option in the desired section:

Partition 1: [3121] Option [1]	Partition 5: [3521] Option [5]
Partition 2: [3221] Option [2]	Partition 6: [3621] Option [6]
Partition 3: [3321] Option [3]	Partition 7: [3721] Option [7]
Partition 4: [3421] Option [4]	Partition 8: [3821] Option [8]

7.13 FOLLOW ZONE SWITCHES TO ENTRY DELAY 2

(Default = disabled) When option [8] is enabled and an Entry Delay zone is bypassed, an armed Follow Zone (see section 5.3.3) that opens without an Entry Delay being triggered will switch to the partition's Entry Delay 2.

For example, zone 1 is an Entry Delay and zone 2 is a Follow zone protecting the area where the keypad is installed. The partition is armed, but zone 1 is bypassed. When option [8] is enabled, zone 2 will trigger Entry Delay 2 instead of an alarm when the user approaches the keypad to disarm the partition.

Enable option [8] in the desired section:

Partition 1: [3122]	Partition 3: [3322]	Partition 5: [3522]	Partition 7: [3722]
Partition 2: [3222]	Partition 4: [3422]	Partition 6: [3622]	Partition 8: [3822]

7.14 ONE-TOUCH FEATURES

(Default = disabled) The One-touch Features can arm or disarm a partition, access Bypass Programming, or display the Event Buffer by pressing and holding a specific key for 2 seconds instead of entering an access code. If the keypad is assigned to more than one partition, the feature must be enabled in the corresponding partitions. Select the section corresponding to the desired partition and enable or disable the desired options:

Partition 1: [3125]	Partition 3: [3325]	Partition 5: [3525]	Partition 7: [3725]
Partition 2: [3225]	Partition 4: [3425]	Partition 6: [3625]	Partition 8: [3825]

Option	One-Touch Feature	One-Touch Key
[1]	Regular Arming (see section 16.1)	[ARM]
[2]	Stay Arming (see section 16.2)	[STAY]
[3]	Instant Arming (see section 16.3)	[5]
[4]	Force Arming (see section 16.4)	[FORCE]
[5]	Stay/Instant Disarming (see section 16.5)	[DISARM]
[6]	Bypass Programming (see section 16.6)	[BYP]
[7]	Event Record Display (see section 16.9)	[7]

7.15 EXIT DELAY

(Default = 060) The Exit Delay determines the amount of time a user has to leave the protected area before the control panel arms the partition. The Exit Delay applies to all zones in the partition, except 24Hr. Zones. Program the Exit Delay from 001 to 255 seconds:

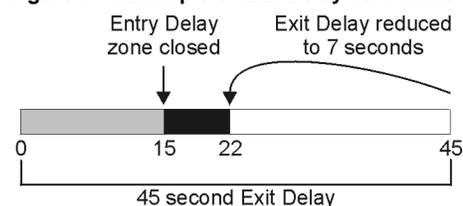
Partition 1: [3108]	Partition 3: [3308]	Partition 5: [3508]	Partition 7: [3708]
Partition 2: [3208]	Partition 4: [3408]	Partition 6: [3608]	Partition 8: [3808]

7.15.1 Exit Delay Termination

(Default = enabled) The control panel can reduce the Exit Delay to 7 seconds when an Entry Delay zone (see section 5.3.2) is opened and closed during the Exit Delay.

For example, 15 sec. into a 45-sec. Exit Delay, an Entry Delay zone opens and closes. The remaining 30 sec. is reduced to 7 sec.

Figure 7-1: Example of Exit Delay Termination



Enable option [4] in the desired section:

Partition 1: [3122]	Partition 3: [3322]	Partition 5: [3522]	Partition 7: [3722]
Partition 2: [3222]	Partition 4: [3422]	Partition 6: [3622]	Partition 8: [3822]

7.15.2 No Exit Delay on Remote Arm

(Default = enabled) When a user arms by using a remote control from the Omnia Wireless System (OMN-RCV3), the control panel will cancel the Exit Delay and immediately arm the partition. Enable option [8] in the desired section:

Partition 1: [3125]	Partition 3: [3325]	Partition 5: [3525]	Partition 7: [3725]
Partition 2: [3225]	Partition 4: [3425]	Partition 6: [3625]	Partition 8: [3825]

7.16 KEYPAD LOCK-OUT FEATURE

(Default = 000) If a consecutive number of invalid codes are entered into a keypad, the control panel can be set to lockout access from all the keypads in the partition for a specified period. Program the number of consecutive invalid codes from 001 to 255 (000 = disabled) into the desired section:

Partition 1: [3105]	Partition 3: [3305]	Partition 5: [3505]	Partition 7: [3705]
Partition 2: [3205]	Partition 4: [3405]	Partition 6: [3605]	Partition 8: [3805]

(Default = 000) Program the duration of the keypad lockout from 001 to 255 minutes into the desired section. Programming 000 into these sections will not lockout the keypad, the control panel will transmit the *Keypad Lockout* report code programmed in section [3937].

Partition 1: [3106]	Partition 3: [3306]	Partition 5: [3506]	Partition 7: [3706]
Partition 2: [3206]	Partition 4: [3406]	Partition 6: [3606]	Partition 8: [3806]

7.17 BELL SQUAWK

The control panel can activate the bell output briefly causing the bell or siren to squawk to alert users that a partition is being armed, disarmed or that an Entry or Exit Delay was triggered. Enable or disable the desired option (off = disabled):

Partition 1: [3124]	Partition 3: [3324]	Partition 5: [3524]	Partition 7: [3724]
Partition 2: [3224]	Partition 4: [3424]	Partition 6: [3624]	Partition 8: [3824]

Option	Bell Squawk on:	Description
[1]	Disarming	Emits 2 squawks upon disarming (default = disabled).
[2]	Arming	Emits 1 squawk upon arming (default = disabled).
[3]	Auto-Arming	Emits 1 squawk every second for 60 seconds before Auto-Arming a partition. Emits a series of 3 squawks every second for 10 seconds before arming (default = disabled).
[4]	Exit Delay	Emits 1 squawk every second during the Exit Delay. Emits a series of 3 squawks every second during the final 10 seconds of the Exit Delay (default = disabled).
[5]	Entry Delay	Emits 1 squawk every second during the Entry Delay (default = disabled).
[6]	Remote Arming/ Disarming	Emits 1 squawk upon arming and 2 squawks upon disarming with a remote control (using the Omnia Wireless System, OMN-RCV3 (default = enabled) .

7.18 RING-BACK

After disarming the system, the control panel can warn the user that there was an alarm and that it may be dangerous to enter by having the keypad beep 10 times and/or by squawking the bell 10 times. The user should leave immediately and contact the Monitoring Station from a secure location. Select the section that corresponds to the desired partition and enable or disable the desired option (off = disabled):

Partition 1: [3124]	Partition 3: [3324]	Partition 5: [3524]	Partition 7: [3724]
Partition 2: [3224]	Partition 4: [3424]	Partition 6: [3624]	Partition 8: [3824]

Option	Bell Squawk on:	Description
[7]	Bell Ring-back	Bell or siren emits 10 squawks (default = disabled)
[8]	Keypad Ring-back	Keypad emits 10 beeps (default = enabled)

7.19 MAXIMUM BYPASS ENTRIES

(Default = 000) The Maximum Bypass Entries feature limits the number of zones that can be bypassed in each partition.

For example, program section [3115] with 010. When in Bypass Programming (see section 16.6), the control panel will not let the user bypass more than 10 zones in partition 1.

Enter any value between 001 and 096 (000 = no limit).

Partition 1: [3115]	Partition 3: [3315]	Partition 5: [3515]	Partition 7: [3715]
Partition 2: [3215]	Partition 4: [3415]	Partition 6: [3615]	Partition 8: [3815]

7.20 DISPLAY "BYPASS" IF ARMED

SECTION [3033]: OPTION [5]

(Default = enabled) When option [5] is enabled, the keypads will not display that zones have been bypassed while the system is armed.

ALARM OPTIONS

8.1 BELL/ALARM OUTPUT

(Default = only option [1] enabled) When an alarm condition is detected in a partition, the control panel can toggle the on-board BELL output enabling any bells or sirens connected to it. In section [3032] enable the option to enable the bell output in the desired partition (off = disabled):

Partition 1: Option [1]	Partition 5: Option [5]
Partition 2: Option [2]	Partition 6: Option [6]
Partition 3: Option [3]	Partition 7: Option [7]
Partition 4: Option [4]	Partition 8: Option [8]

8.2 BELL CUT-OFF TIMER

(Default = 004) After an audible alarm, the bell or siren will stop once the partition is disarmed or when the Bell Cut-Off Timer has elapsed. Enter any value between 001 and 255 minutes:

Partition 1: [3113]	Partition 3: [3313]	Partition 5: [3513]	Partition 7: [3713]
Partition 2: [3213]	Partition 4: [3413]	Partition 6: [3613]	Partition 8: [3813]

8.2.1 No Bell Cut-Off on Fire Alarm

SECTION [3030]: OPTION [2]

(Default = disabled) The control panel can disable the Bell Cut-Off Timers when alarms are generated from zones defined as Standard or Delayed Fire Zones (see section 5.3). The BELL output will remain enabled until a user disarms the partition in alarm.

8.2.2 Recycle Alarm Rate

(Default = 000) The control panel re-verifies the zone status during an alarm at a programmed rate once the Bell Cut-Off Timer and the Recycle Delay elapse. If open zones remain, the control panel will regenerate the alarm. Enter the number of times from 001 to 255 (000 = no limit) in one armed period that the control panel will re-verify the zone status:

Partition 1: [3117]	Partition 3: [3317]	Partition 5: [3517]	Partition 7: [3717]
Partition 2: [3217]	Partition 4: [3417]	Partition 6: [3617]	Partition 8: [3817]

8.2.3 Recycle Delay

(Default = 000) The Recycle Delay is the amount of time the control panel will wait after the Bell Cut-off occurs before re-verifying the zone status. Program the Recycle Delay from 001 to 255 minutes (000 = disabled):

Partition 1: [3116]	Partition 3: [3316]	Partition 5: [3516]	Partition 7: [3716]
Partition 2: [3216]	Partition 4: [3416]	Partition 6: [3616]	Partition 8: [3816]

8.3 WIRELESS TRANSMITTER SUPERVISION OPTIONS

SECTION [3034]: OPTIONS [1] AND [2]



The Supervision feature must be enabled in the Omnia Wireless System (OMN-RCV3) for this feature to function.

IN AN ARMED PARTITION:

When the control panel detects a Supervision Loss (wireless receiver no longer receiving signals from a wireless transmitter), the control panel generates an alarm unless the Wireless Transmitter Supervision Options are disabled. Alarms are silent or audible depending on individual zone settings.

IN A DISARMED PARTITION:

When the control panel detects a Supervision Loss, the control panel follows the programmed settings:

Option	Feature	Description
[1]	[2]	
OFF	OFF	Disabled (Default) Displays zone open on the keypads, but will not generate an alarm or trouble. <i>Not permitted on UL systems.</i>

ON	OFF	Trouble Only	The control panel displays <i>Zone Fault</i> in the Trouble Display and transmits the defined report code (see section 9.2).
OFF	ON	Silent Alarm	The control panel displays <i>Zone Fault</i> in the Trouble Display, transmits the defined report code (see section 9.2), and generates a silent alarm (no bells/sirens).
ON	ON	Audible Alarm	The control panel displays <i>Zone Fault</i> in the Trouble Display, transmits the defined report code (see section 9.2), and generates an audible alarm.

8.3.1 Supervision Bypass Options

SECTION [3034]: OPTION [3]

(Default = disabled) With option [3] enabled in section [3034], the Wireless Transmitter Supervision Options will follow the zone's bypass definition. This means that the control panel will not perform any action if a supervision loss occurs on a bypassed zone. With option [3] disabled, the control panel will ignore the bypass definition and will follow the option set in section 8.3 if a supervision loss occurs on a bypassed zone.

8.4 POLICE CODE TIMER

(Default = 000) If an alarm condition occurs on a zone, the control panel generates an alarm and triggers the Police Code Timer. The Police Code Timer requires confirmation of the alarm situation within the delay before sending the Police Code programmed in [3934]. The Police Code will only be sent if one of the following conditions occurs during the delay:

- 1) An alarm occurs on another zone.
- 2) The zone in alarm restores and reoccurs.

Key in the desired 3-digit delay value (001 to 255 minutes, 000 = disabled) into the section corresponding to the desired partition:

Partition 1: [3118]	Partition 3: [3318]	Partition 5: [3518]	Partition 7: [3718]
Partition 2: [3218]	Partition 4: [3418]	Partition 6: [3618]	Partition 8: [3818]

8.5 TAMPER RECOGNITION OPTIONS

SECTION [3034]: OPTIONS [5] AND [6]

IN AN ARMED PARTITION:

When the control panel detects a tamper or wire fault on a zone or on an expansion module with GuardWall technology, the control panel **always** generates an alarm unless Tamper Recognition is disabled. Alarms are silent or audible depending on individual zone settings.

IN A DISARMED PARTITION:

When the control panel detects a tamper or wire fault on a zone or on an expansion module with GuardWall technology, the control panel follows the programmed settings:

Option	Feature	Description
[5]	[6]	
OFF	OFF	Disabled (Default) Displays zone open on the keypads, but will not generate an alarm or trouble. <i>Not permitted on UL systems.</i>
ON	OFF	Trouble Only The control panel displays <i>Zone Fault</i> in the Trouble Display and transmits the defined report code (see section 9.2).
OFF	ON	Silent Alarm The control panel displays <i>Zone Fault</i> in the Trouble Display, transmits the defined report code (see section 9.2), and generates a silent alarm (no bells/sirens).
ON	ON	Audible Alarm The control panel displays <i>Zone Fault</i> in the Trouble Display, transmits the defined report code (see section 9.2), and generates an audible alarm.

8.5.1 Tamper Bypass Options

SECTION [3034]: OPTION [7]

(Default = enabled) With option [7] enabled in section [3034], the control panel will ignore the zone's bypass definition and will follow the option set in section 8.5 if a tamper or wire fault occurs on a bypassed zone. With option [7] disabled, Tamper Recognition follows the zone's bypass definition. This means that the control panel will not perform any action if a tamper or wire fault occurs on a bypassed zone.

8.6 KEYPAD PANIC OPTIONS

(Default = disabled) The control panel can generate an alarm (silent or audible) when two keys are pressed and held simultaneously for 2 seconds. In the section that corresponds to the desired partition, enable or disable options [1] through [6] as desired:

Partition 1: [3123]	Partition 3: [3323]	Partition 5: [3523]	Partition 7: [3723]
Partition 2: [3223]	Partition 4: [3423]	Partition 6: [3623]	Partition 8: [3823]

Option	Feature	Press and Hold:
[1]	Panic 1	Keys [1] and [3]
[2]	Panic 2	Keys [4] and [6]
[3]	Panic 3	Keys [7] and [9]

Option	Alarm Type
[4]	Panic 1: ON = Audible OFF = Silent
[5]	Panic 2: ON = Audible OFF = Silent
[6]	Panic 3: ON = Fire OFF = Silent

SILENT ALARM

The control panel emits a single Confirmation Beep and transmits the appropriate report code (see section 9.2.10).

AUDIBLE ALARM

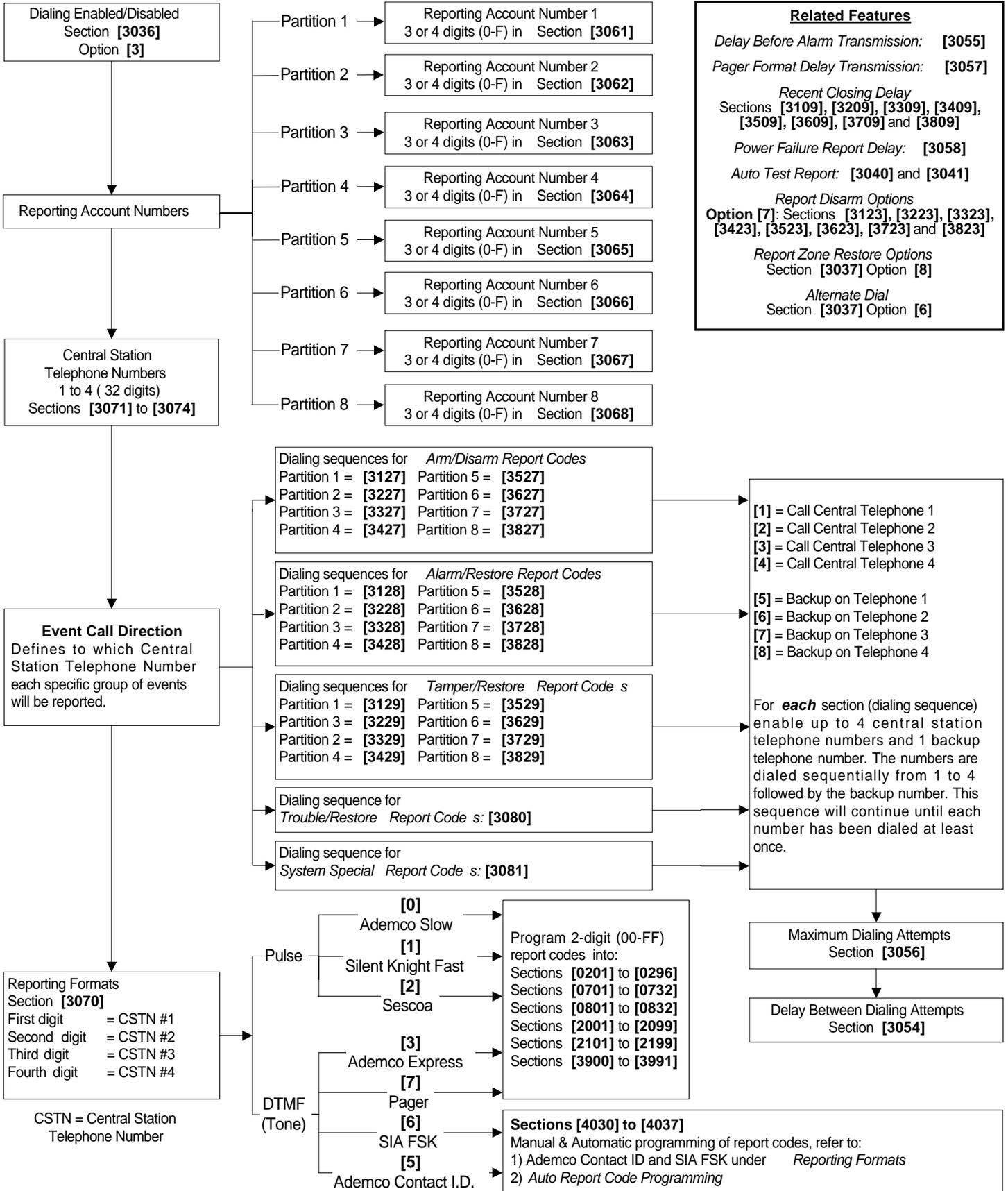
The control panel activates the BELL output until a user cancels the alarm with a valid User Access Code or when the Bell Cut-Off Timer elapses (see section 8.2).

FIRE ALARM

Same as audible operation, except that the bell/siren output will be pulsed as shown in Figure 5-4 on page 18.

EVENT REPORTING

Figure 9-1: Event Reporting



9.1 REPORTING ENABLED

SECTION [3036]: OPTION [3]

(Default = disabled) With option [3] ON in section [3036], Event Reporting is enabled. When an event (e.g. zone in alarm) occurs in the system, the control panel verifies if a report code was programmed in the section corresponding to the event. If a report code is programmed, the control panel dials the Monitoring Station telephone number defined by the Event Call Direction feature. When the Monitoring Station answers, the control panel transmits the system account code, followed by the programmed report code.

9.2 REPORT CODES

A report code is a 2-digit or 1-digit hexadecimal value, consisting of digits from 0 to F. For a comprehensive list of the events and their relevant sections, please refer to the *DigiplexNE Programming Guide*. Only the Ademco Slow, Silent Knight, Sescoa and Pager Formats support 1-digit report codes.

When a specific event occurs, the control panel will send the programmed report code to the Monitoring Station. The method of report code transmission is defined by the following two items: **Reporting Formats** (see section 9.6) and **Event Call Direction** (see section 9.7). These two items define how and where the report codes are transmitted. If you are using the Ademco CID or SIA formats, an Auto Report Code Programming feature is available (see section 9.14). The following sub-sections provide a brief description of the events that the control panel can report:

9.2.1 Zone Alarm and Alarm Restore Report Codes

SECTIONS [0201] TO [0296]: FIRST AND SECOND BRACKETS

A report code can be programmed for each of the 96 available zones. Each section from [0201] to [0296] corresponds to a zone from 01 to 96. The first set of 2 digits in the sections refer to the Alarm Report Codes that can be sent to the Monitoring Station to identify which zones generated an alarm. The second set of 2 digits in the sections refer to the Alarm Restore Report Codes that can be sent to the Monitoring Station when a zone closes or once the bell has cut-off after generating an alarm (see section 8.2). Also, refer to Zone Restore Report Options in section 9.13.

9.2.2 Tamper and Tamper Restore Report Codes

SECTIONS [0201] TO [0296]: THIRD AND FOURTH BRACKETS

A report code can be programmed for each of the 96 available zones. Each section from [0201] to [0296] corresponds to a zone from 01 to 96. The third set of 2 digits refer to the Tamper Report Codes that can be sent to the Monitoring Station to identify which zone experienced a tamper or wire fault. If the Tamper Recognition Options (see section 8.5) are disabled, the control panel will not report the occurrence of any tampers or wire faults. The fourth set of 2 digits refer to the Tamper Restore Report Codes that can be sent to the Monitoring Station to identify which zone was restored.

9.2.3 Keyswitch Arming

SECTIONS [0701] TO [0732]

A report code can be programmed for each of the 32 keyswitch zones. Each section from [0701] to [0732] corresponds to a keyswitch from 1 to 32. When using a keyswitch to arm a partition, the control panel can send the report code to the Monitoring Station identifying which keyswitch was used. The control panel will not send report codes for keyswitches that are defined with the PGM Activation definition.

9.2.4 Keyswitch Disarming

SECTIONS [0801] TO [0832]

A report code can be programmed for each of the 32 keyswitch zones. Each section from [0801] to [0832] corresponds to a keyswitch from 1 to 32. When a keyswitch is used to disarm a partition, the control panel can send the report code to the Monitoring Station identifying which keyswitch was used. The control panel can transmit the report codes every time a partition is disarmed or only when it is disarmed following an alarm. Also, refer to Disarm Reporting Options in section 9.12. The control panel will not send report codes for keyswitches that are defined with the PGM Activation definition.

9.2.5 Access Codes Arming

SECTIONS [2001] TO [2099]

A report code can be programmed individually for each User Access Code from 01 to 98 in sections [2001] to [2098]. User Access Codes from 99 to 999 use a common report code in section [2099]. When an access code is used to arm a partition, the control panel can send the report code to the Monitoring Station identifying which access code was used.

9.2.6 Access Codes Disarming

SECTIONS [2101] TO [2199]

A report code can be programmed individually for each User Access Code from 01 to 98 in sections [2101] to [2198]. User Access Codes from 99 to 999 use a common report code programmed in section [2199]. When an access code is used to disarm a partition, the control panel can send the report code to the Monitoring Station identifying which access code was used. The report code can be transmitted when a partition is disarmed or only when disarmed following an alarm. Also, see section 9.12.

9.2.7 Special System Reporting Codes

When the system generates one of the following events, the control panel can send the report code to the Monitoring Station identifying the event:

Section	Event	Description
[3900]	Cold Start	control panel re-starts after complete shutdown (total power loss)
[3901]	Warm Start	control panel resets due to sudden problem other than power loss
[3902]	Test Report	report generated automatically (see section 9.11)
[3903] to [3905]		Future Use
[3906]	WinLoad Log Off	control panel ends communication with WinLoad
[3907]	Installer In	installer enters programming mode
[3908]	Installer Out	installer exits programming mode
[3909]		Future Use

9.2.8 Special Arming Report Codes

When the partition arms using a special arming feature, the control panel can send the report code identifying how the system was armed.

Section	Event	Description
[3910]	Auto-Arming	when Auto-Arming (see section 7.9)
[3911]	PC Arming	system armed using WinLoad or NEware software
[3912]	Late to Close	when Auto-Arming (see section 7.9)
[3913]	No Movement	when No Movement Auto-Arming (see section 7.10)
[3914]	Partial Arming	when partitions are Stay, Instant or Force Armed or armed with bypassed zones
[3915]	Quick Arming	partitions armed with a One-Touch Arming feature (see section 7.14)
[3916]	Early to Close	partition armed before Arming Report Schedule (see section 9.3.2)
[3917]	Late to Close	partition armed after Arming Report Schedule (see section 9.3.2)
[3918]	Remote Arm	partition armed with the InTouch Voice-Assisted Arm/Disarm Module (APR3-ADM2)
[3919]		Future Use

9.2.9 Special Disarming Report Codes

When using one of the special disarming features listed below, the control panel can send the report code to the Monitoring Station identifying how the system was disarmed. The control panel can transmit the report codes every time a partition is disarmed or only when it is disarmed following an alarm. Also, refer to Disarm Reporting Options in section 9.12.

Section	Event	Description
[3920]	Cancel Auto-Arm	partition disarms during the Auto-Arm's 60-sec. delay (see section 7.9)
[3921]	Quick Disarm	partition disarms using One-Touch Disarming feature (see section 7.14)
[3922]	PC Disarm	system disarmed using WinLoad or NEware software
[3923]	PC Disarm after Alarm	system disarmed using WinLoad or NEware software after an alarm occurs
[3924] and [3925]		Future Use
[3926]	Early to Open	partition disarmed before Disarming Schedule (see section 9.3.2)
[3927]	Late to Open	partition disarmed after Disarming Schedule (see section 9.3.2)
[3928]	Remote Disarm	partition disarmed with InTouch Voice-Assisted Arm/Disarm Module (APR3-ADM2)

9.2.10 Special Alarm Report Codes

When an alarm is generated, the control panel can send the report code to the Monitoring Station identifying the type of alarm.

Section	Event	Description
[3930]	Emergency Panic	the panic keys [1] and [3] were pressed (see section 8.6)
[3931]	Auxiliary Panic	the panic keys [4] and [6] were pressed (see section 8.6)
[3932]	Fire Panic	the panic keys [7] and [9] were pressed (see section 8.6)
[3933]	Recent Closing	an alarm is generated within the <i>Recent Close Delay</i> (see section 9.9)
[3934]	Police Code	Confirmation of an alarm condition occurred during the Police Code Timer's delay (see section 8.4).
[3935]	Auto Zone Shutdown	the control panel stops regenerating alarms on a zone during the same armed period (see section 5.5.1)
[3936]	Duress	a Duress enabled access code is keyed in (refer to the Digiplex/DigiplexNE LCD Keypad and Access Control LCD Keypad Reference & Installation Manual)
[3937]	Keypad Lockout	too many invalid codes entered (see section 7.16)

9.2.11 System Trouble Codes

When a trouble is detected, the control panel can send the report code to the Monitoring Station identifying the type of trouble.

Section	Event	Description
[3940]	TLM1 Failure	TLM failure on main telephone line
[3941]	AC Failure	AC power not detected. Also, see Power Fail Report Delay in section 9.10
[3942]	Battery Failure	battery is disconnected or the battery voltage is less than or equal to 10.5V

[3943]	Auxiliary Supply	the aux power supply's current is greater than or equal to 1.1A
[3944]	Bell Output	bell output is disconnected or the current is greater than or equal to 3A
[3945]	Clock Loss	panel time lost (see section 12.8)
[3946]	Fire Loop Trouble	tamper on a fire zone (see section 5.3)
[3947] to [3949]		Future Use
[3950]	Network Fault	a module with GuardWall technology was removed from the communication network
[3951]	Module Tamper	tamper/wire fault on module (not a motion detector) on the communication network
[3952]	ROM Check Error	on-board Read-Only Memory trouble
[3953]	Module TLM	TLM failure detected on Voice-Assisted Arm/Disarm Module (APR3-ADM2)
[3954]	Module Fail to Communicate	APR3-ADM2 failed to communicate with the Monitoring Station
[3955]	Printer Fault	Printer Module detected an error
[3956]	Module AC Failure	no AC power detected on a module
[3957]	Module Battery Failure	battery on a module is disconnected or the battery voltage is low
[3958]	Module Auxiliary Failure	AUX output on a module with GuardWall technology exceeds current limits
[3959]		Future Use
[3960]	Wireless Transmitter Low Battery	the battery voltage is low on a wireless transmitter
[3961]	Wireless Module Supervision Failure	This report code is global unless using the Contact ID or SIA reporting formats
[3962] to [3964]		Future Use
[3965]	Fail to Com 1	Phone Number 1 failed to communicate*
[3966]	Fail to Com 2	Phone Number 2 failed to communicate*
[3967]	Fail to Com 3	Phone Number 3 failed to communicate*
[3968]	Fail to Com 4	Phone Number 4 failed to communicate*

* No "Fail to Communicate" for Pager telephone numbers

9.2.12 System Trouble Restore Codes

When a trouble described in sections [3940] to [3961] is corrected, the control panel can send the report code to the Monitoring Station.

Section	Event	Section	Event
[3970]	TLM1 Restored	[3981]	Module Tamper Restored
[3971]	AC Restored	[3982]	ROM Check Error Restored
[3972]	Battery Restored	[3983]	Module TLM Restored
[3973]	Auxiliary Supply Restored	[3984]	Module Fail to Communicate Restored
[3974]	Bell Output Restored	[3985]	Printer Fault Restored
[3975]	Clock Loss Restored	[3986]	Module AC Failure Restored
[3976]	Fire Loop Restored	[3987]	Module Battery Restored
[3977]	Future Use	[3988]	Module Auxiliary Restored
[3978]	Future Use	[3989]	Future Use
[3979]	Future Use	[3990]	Wireless Transmitter Battery Restored
[3980]	Network Fault Restored	[3991]	Wireless Module Supervision Restored



If the Telephone Line Monitoring (see section 10.1) is disabled, the control panel will not transmit the TLM report code.

9.3 REPORT ARMING AND DISARMING

The following two features combine to identify when a partition should be armed and disarmed and enable the control panel to communicate deviations from the normal schedule to the Monitoring Station.

9.3.1 Enable Arming and Disarming Report Schedules

(Default = disabled) If the partition is armed or disarmed during times not programmed in the Arming and Disarming Report Schedules (see section 9.3.2), the control panel will send the corresponding report code Early to Close [3916], Late to Close [3917], Early to Open [3926] or Late to Open [3927]. In the desired section enable options [5] and [6] to enable the Arming and Disarming Report Schedules:

Partition 1: [3122]	Partition 3: [3322]	Partition 5: [3522]	Partition 7: [3722]
Partition 2: [3222]	Partition 4: [3422]	Partition 6: [3622]	Partition 8: [3822]

Option	Feature
[5]	Arming Report Schedule
[6]	Disarming Report Schedule

9.3.2 Arming and Disarming Report Schedules

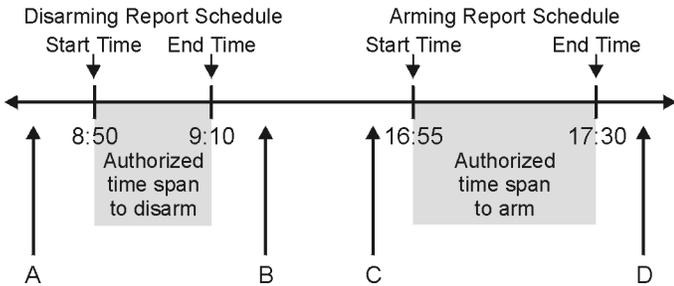
Arming and Disarming Report Schedules identify the days and times that a partition should be armed and disarmed. Each partition includes an Arming Report Schedule and a Disarming Report Schedule. Each schedule consists of 2 programmable time periods called Intervals that determine the time span and days when the partition should be armed or disarmed (see Figure 9-2). To enable the schedules, refer to section 9.3.1.

Figure 9-2: Example of an Arming and a Disarming Report Schedule

Section [3102]: Arming Schedule (partition 1)
Interval 1: Start Time 16:55 End Time 17:30 Options 2, 3, 4, 5 & 6

Section [3103]: Disarming Schedule (partition 1)
Interval 1: Start Time 08:50 End Time 09:10 Options 2, 3, 4, 5, 6

On Monday, Tuesday, Wednesday, Thursday and Friday:



- A = If partition is disarmed, Early to Open report code sent.
- B = If partition is disarmed, Late to Open report code sent.
- C = If partition is armed, Early to Close report code sent.
- D = If partition is armed, Late to Close report code sent.

In the section that corresponds to the desired partition, program the Start Time and End Time according to the 24-hour clock and enable the options representing the desired Days. When option [8] is enabled, access is permitted during the programmed holidays (see section 14.8).

Arming Report Schedule

Partition 1: [3102]	Partition 3: [3302]	Partition 5: [3502]	Partition 7: [3702]
Partition 2: [3202]	Partition 4: [3402]	Partition 6: [3602]	Partition 8: [3802]

Disarming Report Schedule

Partition 1: [3103]	Partition 3: [3303]	Partition 5: [3503]	Partition 7: [3703]
Partition 2: [3203]	Partition 4: [3403]	Partition 6: [3603]	Partition 8: [3803]

Option	Day	Option	Day
[1]	Sunday (S)	[5]	Thursday (T)
[2]	Monday (M)	[6]	Friday (F)
[3]	Tuesday (T)	[7]	Saturday (S)
[4]	Wednesday (W)	[8]	Holidays (H)

9.3.3 Arming/Disarming Schedule Tolerance Window

(Default = 000) The Arming/Disarming Schedule Tolerance Window lengthens the partition's Arming/Disarming Schedule for some users. User Access Codes with *Add Tolerance Windows to Schedules* enabled (refer to the System Manager's Manual) have the number of minutes programmed in these sections added before and after the corresponding partition's schedule. This allows certain individuals more flexibility without modifying all the Schedules.

For example, using Figure 9-2 in section 9.3.2 if 015 is programmed in section [3104], users with *Add Tolerance Windows to Schedules* enabled on their cards can disarm between 8:35 and 9:25 and can arm between 16:40 and 17:45 without the control panel sending the report codes.

Enter any value between 001 and 255 to determine Arming/Disarming Schedule Tolerance Window in minutes.

Partition 1: [3104]	Partition 3: [3304]	Partition 5: [3504]	Partition 7: [3704]
Partition 2: [3204]	Partition 4: [3404]	Partition 6: [3604]	Partition 8: [3804]

9.4 MONITORING STATION PHONE

SECTIONS [3071] TO [3074]

The control panel can dial up to 4 different Monitoring Station telephone numbers. Sections [3071] to [3074] represent Monitoring Station telephone numbers 1 through 4. Enter any digit from 0 to 9 and any special keys or functions (see Table 3) up to a maximum of 32 digits. Refer to Event Call Direction in section 9.7 and Reporting Formats in section 9.6 for details on how these telephone numbers are used.

Table 3: Special Telephone Number Keys

[STAY] = *	[BYP] = 4-second pause
[FORCE] = #	[MEM] = Insert
[ARM] = Switch to Tone Dialing	[TRBL] = Delete
[DISARM] = Wait for second dial tone	[ACC] = Delete from cursor to end

9.5 PARTITION ACCOUNT

SECTIONS [3061] TO [3068]

(Default = 000) All report codes are preceded by a 3- or 4-digit Partition Account Number to ensure correct identification of active zones in a partitioned system. Sections [3061] to [3068] represent the Partition Account Codes for partitions 1 through 8. Partition Account Numbers can be any hexadecimal from 0 to F.

For example, if a zone generates an alarm in Partition 1, the control panel will send Partition Account Number 1 followed by the report code.



Only the SIA format supports the [0] = 0 digit in its account numbers. Account numbers that use other reporting formats do not support the [0] = 0 digit. Enter the [STAY] = A digit in its place. When using the SIA Format, the control panel only uses Partition Account Number 1 programmed in section [3061], but the report code includes the partition number.

9.6 REPORTING FORMATS

SECTION [3070]

The control panel can use a number of different reporting formats, but each of the four Monitoring Station Phone Numbers (see section 9.4) should be programmed with the same reporting format unless they are combined with a Pager format. The first digit entered into section [3070] represents the reporting format (see Table 4) used to communicate with Monitoring Station telephone number 1, the second digit represents telephone number 2, etc.

Table 4: Reporting Formats

0 = Ademco slow (1400Hz, 1900Hz, 10BPS)	4 = Future use
1 = Silent Knight fast (1400Hz, 1900Hz, 20BPS)	5 = Ademco Contact ID
2 = Sescoa (2300Hz, 1800Hz, 20BPS)	6 = SIA FSK
3 = Ademco Express (DTMF 4+2)	7 = Pager

9.6.1 Standard Pulse Formats

The control panel can use the Ademco slow, Silent Knight fast and Sescoa standard pulse reporting formats (see Table 4).

9.6.2 Ademco Express

The Ademco Express is a high-speed reporting format that communicates 2-digit (00 to FF) report codes. Unlike other Ademco formats, the Ademco Express does not use the Contact ID Report Codes.

9.6.3 Ademco Contact ID

Ademco Contact ID is a fast communicator format that uses tone reporting instead of pulse reporting. It also uses a pre-defined list of industry standard messages and report codes that will suit most basic installation needs. To manually program the report codes, use the 2-digit hexadecimal values from the *Contact ID Report Codes List* in the *Programming Guide*. Enter 00 to disable reporting or FF to use the default report code from the *Automatic Report Code List* in the *Programming Guide*. To automatically program a set of default Contact ID codes, refer to section 9.14.

9.6.4 SIA FSK

SIA FSK is a fast communicator format that uses tone reporting instead of pulse reporting. This communicator format uses a pre-defined list of industry standard messages and report codes that will suit most basic installation needs. To manually program the report codes, enter 00 to disable reporting or any other value to use the default report code from the *Automatic Report Code List* in the *Programming Guide*. To automatically program a set of default SIA FSK codes, refer to section 9.14.

9.6.5 Pager Reporting Format

Using this format allows the control panel to transmit report codes to a pager. A pound symbol “#” is automatically generated after the report code. Also refer to Pager Delay in section 9.8.

9.7 EVENT CALL DIRECTION

As shown in Figure 9-1 on page 27, the control panel events are divided into three event groups for each partition and two global event groups. Each event group can be programmed to dial up to four Monitoring Station telephone numbers with one used as a backup. The numbers are dialed sequentially starting from 1, skipping any disabled numbers and stopping once all selected telephone numbers have been reached. If the control panel still fails to report to a Monitoring Station telephone number after reaching the Maximum Dialing Attempts (see section 9.7.1), the control panel will dial the selected backup telephone number unless the Alternate Backup Option is enabled (see section 9.7.3). When the Alternate Backup Option is enabled, the control panel will dial the backup number after every failed attempt. For each section enable or disable the options:

Dialing sequence for: Troubles and Restore Troubles: [3080]
Dialing sequence for: Special System, Arming, Disarming, and Alarm Reporting: [3081]

Dialing sequence for: Access Code and Keyswitch Arming and Disarming

Partition 1: [3127]	Partition 3: [3327]	Partition 5: [3527]	Partition 7: [3727]
Partition 2: [3227]	Partition 4: [3427]	Partition 6: [3627]	Partition 8: [3827]

Dialing sequence for: Zone Alarms and Alarm Restores

Partition 1: [3128]	Partition 3: [3328]	Partition 5: [3528]	Partition 7: [3728]
Partition 2: [3228]	Partition 4: [3428]	Partition 6: [3628]	Partition 8: [3828]

Dialing sequence for: Tamperers and Tamper Restores

Partition 1: [3129]	Partition 3: [3329]	Partition 5: [3529]	Partition 7: [3729]
Partition 2: [3229]	Partition 4: [3429]	Partition 6: [3629]	Partition 8: [3829]

(Default = only option [1] enabled)

Option	Call:	Option	Call (select one only):
[1]	Telephone Number 1	[5]	Backup on Number 1
[2]	Telephone Number 2	[6]	Backup on Number 2
[3]	Telephone Number 3	[7]	Backup on Number 3
[4]	Telephone Number 4	[8]	Backup on Number 4

9.7.1 Maximum Dialing Attempts

SECTION [3056]

(Default = 008) The number (001 to 255, 000 = 8 attempts) programmed into section [3056] determines how many times the control panel will dial the same Monitoring Station Telephone Number before proceeding to the next number. Also refer to section 9.7.3.

9.7.2 Delay Between Dialing Attempts

SECTION [3054]

(Default = 020) This delay will determine the amount of time the control panel will wait between dialing attempts. This delay can be set from 001 to 127 seconds.

9.7.3 Alternate Dialing Option

SECTION [3037]: OPTION [6]

(Default = disabled) With option [6] enabled in section [3037], the control panel dials the selected backup telephone number after every failed attempt to contact a Monitoring Station Telephone Number. Otherwise (option [6] off), the control panel only dials the backup telephone number after the Maximum Dialing Attempts (see section 9.7.1) to one Monitoring Station Telephone Number fail.

9.8 PAGER DELAY

SECTION [3057]

(Default = 060) When using the Pager Reporting Format (see section 9.6.5), the control panel will wait for the delay period programmed into section [3057] before uploading the report codes to the pager. This is to allow time for the pager system to provide a dial tone or to bypass the welcome message before sending the data. Enter any value between 001 and 127 to determine Pager Delay in seconds.

9.9 RECENT CLOSE DELAY

(Default = 000) If, after arming the partition, an alarm is generated within the programmed period, the control panel will transmit the *Recent Close* report code programmed into section [3933]. Enter any value between 001 and 255 to determine Recent Close Delay in seconds.

Partition 1: [3109]	Partition 3: [3309]	Partition 5: [3509]	Partition 7: [3709]
Partition 2: [3209]	Partition 4: [3409]	Partition 6: [3609]	Partition 8: [3809]

9.10 POWER FAILURE REPORT DELAY

SECTION [3058]

(Default = 000) The control panel will delay the transmission of the *AC Failure* report code programmed into section [3941] by the period programmed into section [3058]. Enter any value between 001 and 255 to determine Power Failure Report Delay in minutes.

9.11 AUTO TEST REPORT

SECTION [3037]: OPTION [3] AND [4] AND
SECTIONS [3040], [3041], [3042] AND [3043]

The control panel can transmit the test report code programmed into section [3902] every hour (Hourly Test Transmission) or after a period of time (Auto Test Report Period).

Option		Feature	Description
[3]	[4]		
OFF	OFF	Auto Test Report Period (default)	After the number of days (000 to 255, default = 000) programmed into section [3040] elapse, the control panel can transmit the report code at the time (00:00 to 23:59, default = 00:00) programmed into section [3041].
ON	OFF	Hourly Test Transmission	The control panel transmits the test report code at the same time every hour. Program the minute of each hour (00:00 to 00:59, default = 00:00) when the test report should be sent into section [3041].
ON	ON	Timed Test Transmission when Armed/Disarmed	When armed: The control panel transmits the test report code at regular intervals while the partition is armed. Program the number of minutes (000 to 255, default 005) between each transmission in section [3042]. When disarmed: The control panel transmits the test report code at regular intervals while the partition is disarmed. Program the number of minutes (000 to 255, default = 060) between each transmission in section [3043].

9.12 DISARM REPORTING OPTIONS

(Default = disabled) When option [7] is disabled, the control panel sends the Disarming Report Codes (see section 9.2) every time the partition is disarmed. When option [7] is enabled, the control panel sends the Disarming Report Codes to the Monitoring Station only when the partition is disarmed following an alarm. Select the section that corresponds to the desired partition and enable or disable option [7]:

Partition 1: [3123]	Partition 3: [3323]	Partition 5: [3523]	Partition 7: [3723]
Partition 2: [3223]	Partition 4: [3423]	Partition 6: [3623]	Partition 8: [3823]

9.13 ZONE RESTORE REPORT OPTIONS

SECTION [3037]: OPTION [8]

(Default = disabled) When option [8] is disabled, the control panel sends the *Zone Alarm Restore* report codes to the Monitoring Station when the Bell Cut-Off Timer elapses (see section 8.2) or when the alarm is disarmed. When option [8] is enabled, the control panel sends the *Zone Alarm Restore* report codes (see section 9.2) to the Monitoring Station as soon as the zone returns to normal (zone closure) or upon disarming.

9.14 AUTO REPORT CODE PROGRAMMING

When using either the Contact ID or SIA Reporting Formats (see section 9.6), the control panel can automatically program a set of default report codes. However, the Contact ID Reporting Format can be modified using the manual programming method (see section 9.6.3 & section 9.6.4) to program remaining report codes or to change some of the defaults. From programming mode (see section 4.4) enter any of the following sections to set the indicated report codes with the default values (FF) from the Automatic Report Codes List in the *Programming Guide*:

Section	Description
[4030]	Resets all the report code sections to 00 (cleared).
[4031]	Sets all the report code sections to FF (defaults).

Section	Sets to Defaults (FF)	Reset Sections
[4032]	Zone Alarm and Restore Report Codes Tamper and Restore Report Codes	[0201] to [0296]
[4033]	Keyswitch Arming Report Codes Keyswitch Disarming Report Codes Access Code Arming Report Codes Access Code Disarming Report Codes	[0701] to [0732] [0801] to [0832] [2001] to [2099] [2101] to [2199]
[4034]	Special System Report Codes	[3900] to [3909]
[4035]	Special Arming Report Codes Special Disarming Report Codes	[3910] to [3919] [3920] to [3929]
[4036]	Special Alarm Report Codes	[3930] to [3939]
[4037]	Trouble and Restore Report Codes	[3940] to [3991]

DIALER OPTIONS

10.1 TELEPHONE LINE MONITORING

SECTION [3036]: OPTIONS [1] AND [2]

When enabled, the system verifies the existence of the main telephone line once every second. After each successful test, the Status LED on the control panel flashes briefly. A line test failure occurs when the TLM detects less than 3 volts for the period defined by the TLM Fail Timer (see section 10.1.1). If the line test fails, the control panel will generate one or more conditions as defined by the TLM settings below, until it detects the telephone line again. When the dialer detects a telephone ring, the TLM test stops for 1 minute.

Option	Feature	When the line test fails
[1] [2]		
OFF OFF	Disabled	TLM disabled (default) .
ON OFF	Trouble Only	The <i>Communicator</i> trouble appears in the Trouble Display.
OFF ON	Alarm when Armed	The <i>Communicator</i> trouble appears in the Trouble Display. If the partition is armed, the control panel generates an alarm.
ON ON	Silent Alarms become Audible	The <i>Communicator</i> trouble appears in the Trouble Display. The control panel switches any triggered <i>Silent Alarm</i> zones or <i>Silent</i> panic alarms to an audible alarm.

10.1.1 TLM Fail Timer

SECTION [3053]

(Default = 016) If the TLM does not detect the existence of the main telephone line for the time programmed in this section, the control panel will generate the condition(s) defined by the TLM options (see section 10.1). Enter any value between 016 and 255 (value is X2 seconds) into section [3053]. Entering a value between 000 and 016 will set the TLM Fail Timer to 32 seconds.

10.2 TONE/PULSE DIALING

SECTION [3036]: OPTION [4]

(Default = enabled) When option [4] is enabled, the control panel can dial using the tone/DTMF format. When option [4] is disabled, the control panel uses the pulse dialing format. Refer to section 10.3 for setting the pulse ratio.

Option	Feature
[4] ON	Tone/DTMF format
[4] OFF	Pulse dialing format

10.3 PULSE RATIO

SECTION [3036]: OPTION [5]

(Default = enabled) When using Pulse dialing (see section 10.2), select one of two Pulse Ratios. Although most European countries use the 1:2 pulse ratio, the 1:1.5 ratio may provide better results in some cases. If the 1:1.5 pulse ratio is not providing the desired results in North American countries, the 1:2 ratio may be used.

Option	Feature
[5] ON	North American pulse ratio of 1:1.5
[5] OFF	European pulse ratio of 1:2

10.4 BUSY TONE DETECTION

SECTION [3036]: OPTION [6]

(Default = enabled) When option [6] is enabled, the control panel immediately hangs up if it receives a busy signal when it dials an outside number.

10.5 SWITCH TO PULSE

SECTION [3036]: OPTION [7]

(Default = disabled) When option [7] is enabled, the control panel switches from tone dialing to pulse dialing on the fifth attempt to report events to the Monitoring Station. The control panel continues to use pulse dialing until it establishes communication. When the control panel switches to another Monitoring Station telephone number, it returns to tone dialing and switches back to pulse dialing on the fifth attempt.

10.6 BELL ON COMMUNICATION FAIL

SECTION [3036]: OPTION [8]

(Default = disabled) When option [8] is enabled and the control panel fails to communicate with the Monitoring Station when the partition is armed, the control panel can enable the BELL output.

10.7 KEYPAD BEEP ON SUCCESSFUL ARM OR DISARM REPORT

SECTION [3037]: OPTION [5]

(Default = disabled) When option [5] is enabled and a user arms or disarms a partition, the keypad emits a beep tone to confirm that the Monitoring Station received the arming or disarming report code.

10.8 DIAL TONE DELAY

SECTION [3037]: OPTION [7]

(Default = disabled) When option [7] is enabled, the dialer hangs up if no dial tone is present after 32 seconds. When option [7] is disabled, the dialer dials even if no dial tone is present after 3 seconds. If more time is required, insert a 4-second pause into the desired telephone number sequence (see section 9.4).

Option	Feature
[7] ON	If no dial tone is present, dialer hangs up.
[7] OFF	If no dial tone is present, force dials.

PROGRAMMABLE OUTPUTS

A PGM is a programmable output that toggles to its opposite state (i.e. a normally open PGM will close) when a specific event occurs in the system.

For example, a PGM can be used to reset smoke detectors, activate strobe lights, open/close garage doors and much more.

When a PGM closes, the control panel supplies a ground to the PGM activating any device or relay connected to it. When a PGM opens, the circuit opens from ground, therefore not providing any power to the devices connected to it. The control panel provides a maximum of 100mA to PGM1 and 5A to PGM2 and PGM3. PGM1 is a normally open transistor output and PGM2 and PGM3 are normally open or normally closed 5A relays. For details on how to connect a relay to a PGM, please refer to section 3.8 on page 9.

11.1 PGM ACTIVATION EVENT

The PGM Activation Event determines which event will activate the PGM. The Event Group specifies the event, the Feature Group identifies the source, and the Start # and End # sets the range within the Feature Group (see PGM Programming Table in the *Programming Guide*).

For example, the control panel can activate PGM1 when the partition is armed by User Access Codes 256 to 260. Therefore:

*Event Group section [0910] = 010 "Arming with User Code"
Feature Group section [0911] = 001 "User Codes 256 to 511"
Start # section [0912] = 000
End # section [0913] = 004*

Enter the sections that correspond to the Event Group, Feature Group, Start # and End # of the desired PGM and enter the desired 3-digit number from the PGM Programming Table:

	Event Group	Feature Group	Start #	End #
PGM 1:	[0910]	[0911]	[0912]	[0913]
PGM 2:	[0920]	[0921]	[0922]	[0923]
PGM 3:	[0930]	[0931]	[0932]	[0933]

11.2 PGM DEACTIVATION OPTION

Once the PGMs are activated (see section 11.1), they can deactivate when another event occurs or after a period of time. The PGM Deactivation Option determines which method is used, the PGM Deactivation Event (see section 11.4) or the PGM Timer (see section 11.5). Enter the section that corresponds to the desired PGM and enable or disable option [1] (default = PGM Deactivation Event):

PGM 1: [0919]	Option	Feature
PGM 2: [0929]	[1]	ON PGM Timer
PGM 3: [0939]	[1]	OFF PGM Deactivation Event

11.3 FLEXIBLE PGM DEACTIVATION OPTION

The PGM Deactivation Option (see section 11.2) must be set to *PGM Timer* for this feature to function. The Flexible PGM Deactivation Option uses the benefits of both the PGM Deactivation Event (see section 11.4) and the PGM Timer (see section 11.5). When option [3] is enabled and the PGM is activated (see section 11.1), it will deactivate when **either** the PGM Deactivation Event occurs **or** the PGM Timer elapses, whichever happens first.

For example, the PGM activates and the PGM Timer is set for 5 minutes. However, the PGM Deactivation Event occurs before 5 minutes ends so the PGM deactivates.

Enter the section corresponding to the PGM and enable option [3] (default = disabled):

PGM 1: [0919]	PGM 2: [0929]	PGM 3: [0939]
---------------	---------------	---------------

11.4 PGM DEACTIVATION EVENT

The PGM Deactivation Event determines which event will return the PGM to its original state. The Event Group specifies the event, the Feature Group identifies the source, and the Start # and End # determine the range within the Feature Group. The complete PGM Programming Table appears in the Programming Guide.

*For example, to deactivate PGM1 when zone 3 opens, program:
Event Group section [0914] = 001 "Zone is Open"
Feature Group section [0915] = 000 "Zone Numbers"
Start # section [0916] = 003
End # section [0917] = 003*

Enter the sections that correspond to the Event Group, Feature Group, Start # and End # of the desired PGM and enter the desired 3-digit number from the PGM Programming Table.

	Event Group	Feature Group	Start #	End #
PGM 1:	[0914]	[0915]	[0916]	[0917]
PGM 2:	[0924]	[0925]	[0926]	[0927]
PGM 3:	[0934]	[0935]	[0936]	[0937]

11.5 PGM TIMER

When the PGM Deactivation Option (see section 11.2) is enabled, the PGM Timer determines how many seconds or minutes (see section 11.5.1) the PGM remains activated before it returns to its original state.

Enter the section that corresponds to the desired PGM and enter a value from 001 to 255 (default = 005). The value entered is either in seconds or minutes as determined by the PGM Time Base Selection (see section 11.5.1).

PGM 1: [0918]	PGM 2: [0928]	PGM 3: [0938]
---------------	---------------	---------------

11.5.1 PGM Time Base Selection

The PGM Time Base Selection determines whether the PGM Timers in sections [0918], [0928] and [0938] are in minutes or seconds (default = seconds). Enter the section corresponding to the desired PGM and enable or disable option [2]:

PGM 1: [0919]	Option	Feature
PGM 2: [0929]	[2]	ON Minutes
PGM 3: [0939]	[2]	OFF Seconds

11.6 PGM1 BECOMES A 2-WIRE SMOKE DETECTOR INPUT

SECTION [3030]: OPTION [1]
(Default = disabled) Enabling option [1] in section [3030] sets PGM1 to act as a zone input for two-wire smoke detectors. When programming Zone Numbering (see section 5.1), the control panel will recognize PGM1 as input number 255. For two-wire smoke detector connections, please refer to section 3.17.1 on page 14

11.7 PGM TEST MODE

Entering sections [0901] to [0903] activates the corresponding PGM for 8 seconds to verify if the PGM is functioning as desired.

PGM 1: [0901]	PGM 2: [0902]	PGM 3: [0903]
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SYSTEM SETTINGS & COMMANDS

12.1 HARDWARE RESET

A Hardware Reset sets sections [0001] to [3991] to default, including the Installer and System Master Codes. Only the Panel ID, PC Password, PC Telephone Number and Event Buffer are not reset. A Hardware Reset cannot be performed on a control panel with the Installer Code Lock enabled (see section 12.3).

- 1) Make sure the Installer Code Lock is disabled
- 2) Remove the battery and AC power from the control panel.
- 3) Place the RESET jumper on the reset pins of the control panel.
- 4) Re-connect the AC power and the battery to the control panel.
- 5) Wait 10 seconds and remove the jumper.

12.2 SOFTWARE RESET

Performing a software reset will set certain parameters to default values or program certain sections with a set of pre-defined values. To do so:

- 1) Place the RESET jumper on the reset pins of the control panel.
- 2) Enter Panel Programming Mode (see section 4.4).
- 3) Enter the 4-digit [SECTION] of the software reset you wish to perform:

Section	Description
[4040]	Entering this section resets the programmable sections from [0001] to [3991] to default (even if Installer Code Lock is enabled). The Event Buffer, Panel ID, PC Password, PC Telephone Number and Zone, Door, Partition and User Labels (see section 13.4) will not reset.
[4041]	Entering this section resets the System Master Code to 123456.
[4042]	Entering this section resets all Zone Programming sections from [0001] to [0196], [0201] to [0296] and [0961] to [0984] to default.
[4043]	Entering this section resets the Access Control sections, except Door Labels (see section 12.22), from [2201] to [2712] to default.
[4044]	Entering this section resets all User Access Code Programming sections from [1001] to [1999] and [2001] to [2199] to default. User Labels (see section 13.4) will not be reset.
[4045]	Entering this section resets all control panel settings from [3020] to [3043] and from [3900] to [3991] and all the Dialer sections from [3051] to [3081] to default.
[4046]	Entering this section resets all Partition Settings, except Partition Labels (see section 12.22), from [3101] to [3829] to default.
[4047]	Entering this section resets Keyswitch Programming sections from [0501] to [0832] and all Programmable Outputs sections from [0901] to [0939] to default.
[4048]	Entering this section resets the User Labels from the User Access Codes, the Zone Labels from [0301] to [0396], Door Labels from [2301] to [2332], Partition Labels [3100], [3200], [3300], [3400], [3500], [3600], [3700] and [3800] to default.

 **Do not remove power from the control panel.**

12.3 INSTALLER CODE LOCK

SECTION [3001]
 (Default = 000) Enter 147 into section [3001] to lock all programming. When 147 is programmed, performing a hardware reset as described in section 12.1 will not affect the current panel settings. To remove the Installer Lock, enter 000 into section [3001].

12.4 DAYLIGHT SAVINGS TIME

SECTION [3030]: OPTION [3]
 (Default = enabled) When option [3] is enabled, the control panel adjusts the system's clock (time) for daylight saving changes. At 2:00AM on the first Sunday of a full weekend in April, the control panel will add one hour to the

programmed time (clock). At 2:00AM on the last Sunday of a full weekend in October, the control panel will subtract one hour from the time (clock).

12.5 BATTERY CHARGE CURRENT

SECTION [3030]: OPTION [5]
 When option [5] is enabled, the battery's charge current is 700mA (min. 40VA transformer). When option [5] is disabled, the charge current is 350mA. Depending on the battery's capacity, enable or disable the option:

Option		Feature
[5]	ON	700mA
[5]	OFF	350mA (default)

12.6 SERIAL PORT BAUD RATE

SECTION [3035]: OPTION [8]
 When option [8] is enabled, the serial port's baud rate is 38,400 baud. When option [8] is disabled, the baud rate is 19,200 baud. Depending on the baud rate set in WinLoad or NEware, enable or disable option [8]:

Option		Feature
[8]	ON	38,400 baud
[8]	OFF	19,200 baud (default)

 *If communication between the control panel and the computer is experiencing difficulty at 38,400 baud, especially over long distances, disable option [8] and reduce the baud rate of the software to 19,200 baud.*

12.7 PARTITIONING

SECTION [3031]: OPTIONS [1] TO [8]
 (Default = only partition 1 enabled) The control panel can provide up to eight completely independent partitions. Most features and options can be independently set for each partition such as Event Reporting, Entry/Exit Delay, Bell Squawk, One-touch Arming, Panic Alarms and many more. All zones, keyswitch zones, user codes and system modules are assigned to specific partitions, making this a true partitioned system. Enable the option(s) that correspond to the desired partition(s):

Option	Description	Option	Description
[1]	Partition 1	[5]	Partition 5
[2]	Partition 2	[6]	Partition 6
[3]	Partition 3	[7]	Partition 7
[4]	Partition 4	[8]	Partition 8

12.7.1 Panel Partition Assignment

SECTION [3020]
 (Default = 00) The control panel will report system events as originating from one or all enabled partitions. The System Troubles (i.e. AC Failure, TLM Failure, etc.) can only be viewed through the partitions enabled in this section. Enter one of the following values:..

Value	Description	Value	Description
00	All enabled partitions		
01	Control Panel in Partition 1	05	Control Panel in Partition 5
02	Control Panel in Partition 2	06	Control Panel in Partition 6
03	Control Panel in Partition 3	07	Control Panel in Partition 7
04	Control Panel in Partition 4	08	Control Panel in Partition 8

12.8 SYSTEM DATE & TIME

The System Date and Time is programmed through the User Menu, please refer to Clock Loss in section 16.11.

12.9 SHABBAT FEATURE

SECTION [3030]: OPTION [4]

(Default = disabled) When option [4] is enabled, detectors and keypads in the system no longer display system status through the LCD and/or LEDs between noon (12:00PM) Friday and midnight (12:00AM) Saturday. Normal operation is re-instated Sunday morning at 12:00:01AM. If required, a user can access all the usual commands and features during the Shabbat period by pressing a key or by entering their access code (also depending if and how Confidential Mode is enabled in the keypad). When no actions have occurred for two minutes, the Shabbat Feature will re-activate. During the Shabbat period:

- the LCD keypads only display the date and time
- the backlight is disabled
- the LED indicators on modules with GuardWall technology are disabled

12.10 INSTALLER FUNCTION KEYS

Press and hold the [0] key and key in the [INSTALLER CODE] to access the following function keys.

Keys	Description
[STAY]	TEST REPORT Sends the <i>Test Report</i> report code programmed in section [3902] to the Monitoring Station.
[FORCE]	CALL WINLOAD: Dials the PC telephone number programmed in section [3010] to communicate with a computer using WinLoad.
[ARM]	ANSWER WINLOAD: Forces the control panel to answer a call made by the Central Monitoring Station that is using WinLoad.
[DISARM]	CANCEL COMMUNICATION Cancels all communication with the Monitoring Station or WinLoad until the next reportable event.
[MEM]	INSTALLER TEST MODE Perform walk tests where the bell or siren squawks once when a zone opens and twice when it closes. Press [MEM] again to exit. Partitions cannot be armed if the Installer Test Mode is enabled.
[TRBL]	START MODULE SCAN Verifies the status of modules on the communication network. The LCD Keypads display the serial number of each module connected to the communication network.
[ACC]	START VOLTMETER READING: Verifies if the communication network is supplying sufficient power at the keypad's location (refer to the Digiplex/DigiplexNE LCD Keypad and Access Control LCD Keypad Reference & Installation Manual).

12.11 MODULE RESET

SECTION [4001]

To reset a module connected to the communication network to its default values, key in the module's serial number into section [4001].

12.12 LOCATE MODULE

SECTION [4002]

To locate a specific module on the communication network, key in the module's serial number into section [4002]. The green LOCATE LED on the module flashes until the serial number is re-entered into the section or the module's tamper or unlocate switch is pressed.

12.13 MODULE PROGRAMMING

SECTION [4003]

All modules with GuardWall technology connected to the communication network are programmed through the control panel. To program a module, enter section [4003] to enter *Module Programming Mode* (see section 4.5), key in the module's serial number and follow the programming indicated in the *DigiplexNE Modules Programming Guide*. To exit this mode, press the [CLEAR] key until Normal Mode is displayed.

12.14 MODULE BROADCAST

SECTION [4004]

To copy the contents of the programming sections from one module with GuardWall technology to one or more of the same type, key in the serial number of the source module in section [4004], then enter the serial numbers of all the destination modules and press [ACC].

For example, to program two zone expansion modules (SN#34540075 and SN#34412100) with the same settings and options of zone expansion module SN#34540033:

- 1) Press and hold the [0] key
- 2) Key in the Installer Code
- 3) Enter [4004]
- 4) Enter 34540033, 34540075, and 34412100
- 5) Press [ACC]

The control panel automatically copies the contents of 34540033 into the other two zone expansion modules.

12.15 LABEL BROADCAST

SECTION [4006]

Enter section [4006] to copy the User Labels, Zone Labels (sections [0301] to [0396]), the Door Labels (sections [2301] to [2332]) and the Partition Labels (sections [3100], [3200], [3300], [3400], [3500], [3600], [3700] and [3800]) to all the modules in the system that support these labels.

12.16 REMOVE MODULE

SECTION [4005]

After entering section [4005], the control panel scans all modules on the communication network. If modules are missing (i.e. module was removed) during this scan, the control panel erases the module's serial number and removes the module from the control panel's memory.

12.17 SERIAL NUMBER VIEWING

SECTION [4000]

Enter section [4000] to view the serial number of the control panel as well as the serial numbers of all modules with GuardWall technology on the communication network. The keypad displays the eight-digit serial number of the control panel. Use the [▲] and [▼] keys to scroll through the serial number of each module.

12.18 POWER SAVE MODE

SECTION [3033]: OPTIONS [4]

(Default = enabled) When option [4] is enabled and the control panel is running on the backup battery (no AC), the control panel can set all keypads into a "sleep mode" or Power Save Mode. In Power Save Mode the keypad's backlight and LEDs are disabled until a key is pressed, an alarm occurs or an Entry Delay is triggered.

12.19 AUTO TROUBLE SHUTDOWN

SECTION [3021]

(Default = 00) If, in a 24-hour period, a trouble occurs more than the number of times programmed in section [3021], the control panel stops reporting the trouble. Enter a value (01 to 15, 00 = disabled) into section [3021]. Each trouble has its own counter. The counter is reset every day at midnight.

12.20 NO AC FAIL DISPLAY

SECTION [3030]: OPTION [6]

(Default = disabled) When option [6] is enabled, the control panel will not display the AC Failure as a trouble. When an AC Failure occurs with this option enabled:

- the AC LED will extinguish
- the AC Failure report code will be reported.
- the trouble will not appear in the Trouble Display
- the keypad will not beep to indicate the trouble

12.21 MULTIPLE ACTION FEATURE

SECTION [3033]: OPTION [1]

(Default = disabled) When option [1] is enabled, users will remain in the User Menu after entering their access code. This allows users to perform more than one action without having to re-enter their access code. With option [1] off, the control panel will exit the User Menu after every action.

12.22 SYSTEM LABELS

The existing label displayed on the LCD screen can be modified to suit the installation's needs. Each label contains a maximum of 16 characters.

For example, change section [0301] "ZONE 01" to "FRONT DOOR".

When System Labels are modified, the label is changed throughout the system. The labels can be changed to reflect the location of the device or area to enable users and installers to rapidly understand the information displayed on the LCD screen. To re-program the System Label, enter the desired section and use Table 5, Table 6 and Table 7 to modify the label:

Zone Labels: Sections [0301] to [0396] represent Zones 01 to 96.
Door Labels: Sections [2301] to [2332] represent Doors 01 to 32.
Partition Labels:
Partition 1: [3100] Partition 3: [3300] Partition 5: [3500] Partition 7: [3700]
Partition 2: [3200] Partition 4: [3400] Partition 6: [3600] Partition 8: [3800]

Table 5: Keys

Press	Feature	Description
[STAY]	Insert Space	Inserts a blank space in the cursor's position
[FORCE]	Delete	Deletes the character or blank space found at the cursor's position
[ARM]	Delete Until the End	Deletes all characters and spaces to the right of the cursor and at the cursor's position
[DISARM]	Numeric or Alphanumeric	Toggles from numeric keys to alphanumeric keys and vice versa (see Table 7)
[BYP]	Lower or Upper Case	Toggles the case setting from lower to upper case and vice versa
[MEM]	Special Characters	The cursor will turn into a flashing black square. Using Table , enter the 3-digit number that represents the desired symbol

Table 6: Special Characters Catalog

032	048	064	080	096	112	128	144	160	176	192	208
	0	ð	P	`	p	Û	Ê	-	š	Ø	•
033	049	065	081	097	113	129	145	161	177	193	209
	!	1	A	Q	a	q	Û	Ê	î	Ł	
034	050	066	082	098	114	130	146	162	178	194	210
	"	2	B	R	b	r	Ú	É	í	ij	°
035	051	067	083	099	115	131	147	163	179	195	211
	#	3	C	S	c	s	Ü	Ë	í	↑	°
036	052	068	084	100	116	132	148	164	180	196	212
	\$	4	D	T	d	t	û	ê	ï	↓	°
037	053	069	085	101	117	133	149	165	181	197	213
	%	5	E	U	e	u	ù	è	ï	↙	°
038	054	070	086	102	118	134	150	166	182	198	214
	&	6	F	V	f	v	ú	é	Ñ	ˆ	÷
039	055	071	087	103	119	135	151	167	183	199	215
	'	7	G	W	g	w	Ô	ë	ñ	ˆ	°
040	056	072	088	104	120	136	152	168	184	200	216
	(	8	H	X	h	x	Ò	À	Ñ	→	°
041	057	073	089	105	121	137	153	169	185	201	217
	)	9	I	Y	i	y	Ó	Ä	↓	°	!.
042	058	074	090	106	122	138	154	170	186	202	218
	*	:	J	Z	j	z	-	â	↑	ˆ	°
043	059	075	091	107	123	139	155	171	187	203	219
	+	;	K	[	k	{	â	ˆ	↓	ˆ	ˆ
044	060	076	092	108	124	140	156	172	188	204	220
	,	<	L	*	l	l	à	-	ı	ˆ	Ⓢ
045	061	077	093	109	125	141	157	173	189	205	221
	-	=	M	]	m	}	á	-	ˆ	ˆ	Ⓢ
046	062	078	094	110	126	142	158	174	190	206	222
	.	>	N	^	n	→	ä	Ω	ˆ	ˆ	Ⓢ
047	063	079	095	111	127	143	159	175	191	207	223
	/	?	O	_	o	←	ı	À	ˆ	ˆ	≡

Table 7: Numeric and Alphanumeric keys

Key	Numeric	Alphanumeric		
	Press key one time	Press key one time	Press key two times	Press key three times
[0]	0	---	---	---
[1]	1	A	B	C
[2]	2	D	E	F
[3]	3	G	H	I
[4]	4	J	K	L
[5]	5	M	N	O
[6]	6	P	Q	R
[7]	7	S	T	U
[8]	8	V	W	X
[9]	9	Y	Z	

13.1 INSTALLER CODE

SECTION [1000]

(Default: 000000) The Installer Code is used to enter the control panel's programming mode, which allows you to program all the features, options and commands of the control panel and any modules on the communication network. The Installer Code is six digits in length where each digit can be any value from 0 to 9. To change the Installer Code:

- 1) Press and hold **[0]**
- 2) Enter **[INSTALLER CODE]**
- 3) Key in **[1000]**
- 4) Enter new 6-digit **[INSTALLER CODE]**

 **The Installer Code can program the User Code Options and the Partition Assignment, but cannot program the personal identification numbers.**

13.2 ACCESS CODE LENGTH

SECTION [3033]: OPTIONS [2] AND [3]

Access codes can be 1 to 6 digits in length. When programming access codes with less than 6 digits, press the **[ENTER]** key after entering the last digit. The control panel automatically removes the last 2 digits of the User Access Code if the length is changed from 6 digits to 4 digits. However, if the User Access Code Length is changed from 4 digits to 6 digits, the control panel adds 2 digits to the end by using the first 2 digits.

For example, if the User Access Code is 1234 and you switch to 6 digits, the code will become 123412.

Option	Description
[2] [3]	
OFF OFF	4-digit User Access Code (Default)
OFF ON	6-digit User Access Code
ON ON	Flexible User Access Code

13.3 SYSTEM MASTER CODE

SECTION [1001]

(Default: 123456) The Installer Code can change the User Code Options, Partition Assignment and Access Control Options, but cannot change the personal identification number (PIN). Each digit in the System Master Code can be any value from 0 to 9. To reset the System Master Code, refer to section 12.2 on page 35. With the System Master Code, a user can use any of the available arming methods with access to all partitions and can program all User Access Codes, User Options, Partition Assignments and Access Control Options.

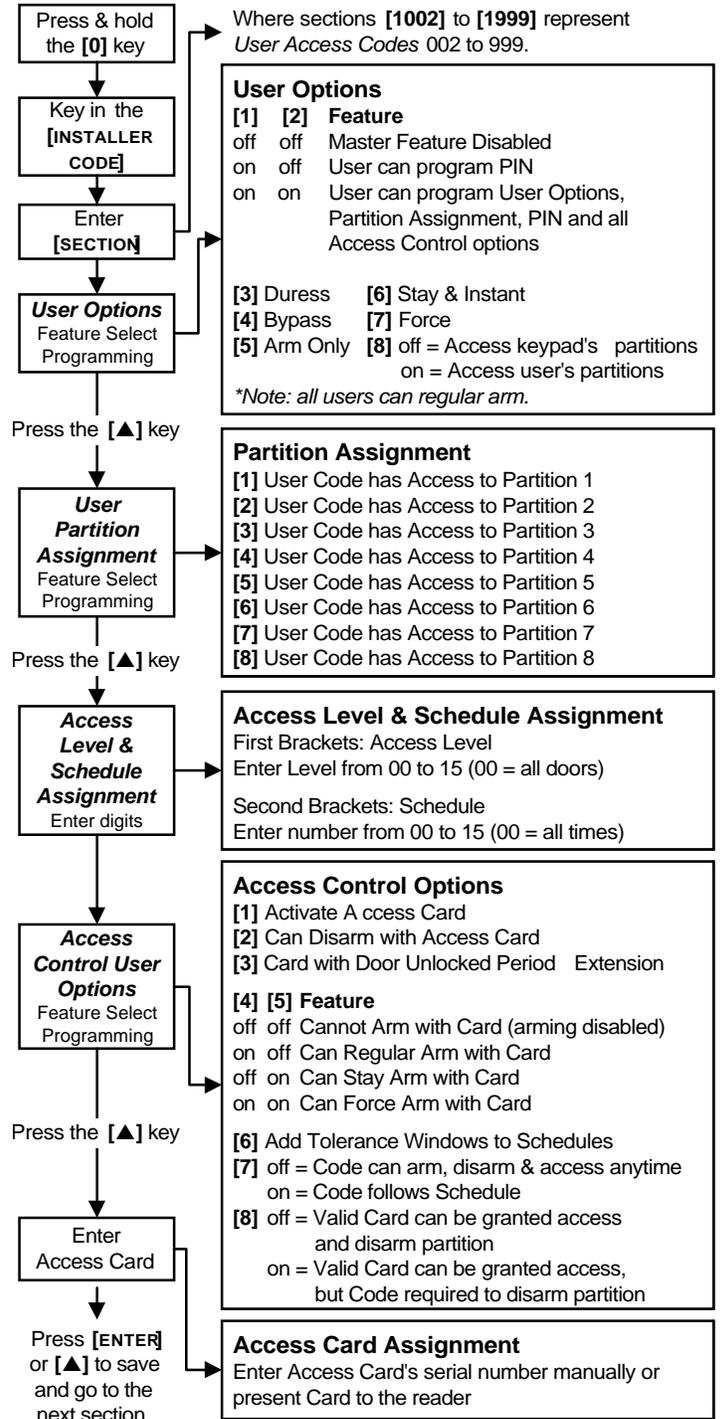
13.4 PROGRAMMING ACCESS CODES

SECTIONS [1002] TO [1999]

(Default = all options are off) The control panel supports 998 User Access Codes. In sections **[1002]** to **[1999]**, the Installer Code can program the User Code Options, Partition Assignment and Access Control Options, but cannot program the personal identification numbers (PIN). To program the PINs, refer the users to the *System Manager's Manual*. The System Master Code or a user with the Master feature enabled can program the User Code Options, Partition Assignment, Access Control Options and User Labels using a different method of programming.

 **If no partition assignment is selected, the User Access Code will only be able to activate PGMs.**

Figure 13-1: Programming User Access Codes



13.5 USER OPTIONS

SECTIONS [1002] TO [1999]: USER OPTIONS SCREEN, OPTIONS [1] TO [8] The User Options define how each User Access Code can arm or disarm the partitions. All users can Regular Arm (see section 16.1) their assigned partitions, but only those with the Disarm option enabled can disarm an assigned partition.

Enable or disable the options as required for each User Access Code as shown in Figure 13-1.

Option	Feature	Description
[1] [2]		
OFF OFF	Master disabled	User cannot create or modify other User Access Codes.
ON OFF	Master enabled	User can create new User Access Codes with default options only, can program PINs and User Labels.
ON ON	Full Master enabled	User can create or modify User Access Codes with the same partition assignment and program the User Options, Partition Assignment (can assign only partitions the Master Code has access to), Access Control features, PINs and User Labels.
[3]	Duress	A Duress enabled User Access Code can arm or disarm the partition and can immediately transmit a silent alarm to the Monitoring Station.
[4]	Bypass	User can program bypass entries as described in section 16.6.
[5]	Arm Only	User can arm assigned partitions, but cannot Disarm.
[6]	Stay or Instant Arm	User can Stay Arm or Instant Arm (see section 16.2) assigned partitions.
[7]	Force Arm	User can Force Arm assigned partitions (see section 16.4)
[8]	User Menu Access	Option [8] ON = User can access all its assigned partitions, regardless of the keypad's partition assignment. Option [8] OFF = User can only access the partitions assigned to both itself and the keypad.

13.6 PARTITION ASSIGNMENT

SECTIONS [1002] TO [1999]: ASSIGN AREA SCREEN, OPTIONS [1] TO [8]
Each of the 998 User Access Codes can be assigned to one or more partitions. Users can only arm, disarm and view the status of the partitions assigned to their User Access Codes. Select one or more of the partitions for each User Access Code as shown in Figure 13-1 on page 38.



*If no partition assignment is selected, the User Access Code will **only** be able to activate PGMs.*

13.7 ACCESS CONTROL

SECTIONS [1002] TO [1999]
In addition to the User Access Code options, the following options can be programmed when Access Control is enabled: Access Level, Schedule, Access Options and Access Card. For details on Access Control, see section 14 on page 40.



The System Master Code and User Access Codes with the Full Master feature enabled can also program the Access Level, Schedule, Access User Options, and Access Card using another method for programming.



The System Master Code has access to all doors all the time. Only the card's serial number and the choice of arming method can be changed. If the other options are changed, the System Master Code will revert to its original programming.

13.7.1 Access Level Assignment

SECTIONS [1002] TO [1999]: LEVEL + SCHEDULE SCREEN
User Access Codes can only open the doors included in their assigned Access Level (see section 14.5 on page 40). In the first set of brackets, enter the two-digit Access Level number (00 to 15, 00 = unrestricted) to be assigned to that User Access Code.

13.7.2 Schedule Assignment

SECTIONS [1002] TO [1999]: LEVEL + SCHEDULE SCREEN
Schedules determine the hours, days and holidays that User Access Codes can open the doors in their assigned Access Level (see section 14.6). In the second set of brackets, enter the two-digit Primary Schedule number (00 to 15, 00 = unrestricted) to be assigned to that User Access Code.

13.7.3 Access Control Options

SECTIONS [1002] TO [1999]: ACCESS OPTION SCREEN, OPTIONS [1] TO [8]
The Access Control Options define how each Access Card can arm or disarm the partitions. To arm the partition(s) assigned to the door, a valid card is presented to the reader twice within approximately 5 seconds while the door remains closed. For the card to be valid, it must be presented during its assigned Schedule, within its assigned Access Level and be assigned to the keypad's assigned partitions depending on the Door Access Mode (see section 14.10). Enable or disable the options as required for each Access Card as shown in Figure 13-1.

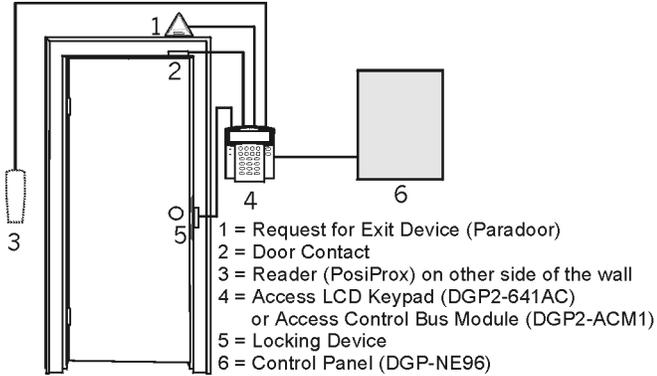
Option	Feature	Description
[1]	Activate Card	ON = Card assigned to the User Access Code is activated and can be used when Access Control is enabled. OFF = Card is disabled, but the User Access Code remains unaffected. This can be used to disable a lost or stolen card without deleting the User Access Code.
[2]	Card can Disarm	Card can unlock Door and disarm assigned partitions. User Option [5]: Arm Only must be disabled for this feature to function.
[3]	Card with Extended Unlocked Period	Card uses the Door Unlocked Period Extension feature (see Digiplex/DigiplexNE LCD Keypad and Access Control LCD Keypad Reference & Installation Manual).
[4] [5]		
OFF OFF	Arming Disabled	Cannot arm partitions
ON OFF	Regular Arm	Card can Regular Arm.
OFF ON	Stay Arm	Card can Stay Arm.
ON ON	Force Arm	Card can Force Arm.
[6]	Add Tolerance Windows to Schedules	Card and Code use the Schedule Tolerance Windows (see section 9.3.3 on page 30 and section 14.9 on page 41).
[7]	Code follows Schedule	ON = Code is only valid during assigned Schedule (see section 13.7.2). OFF = Code is valid at all times.
[8]	Card to Unlock and Code to Disarm	ON = A door contact must be installed on the Door, the Door must be assigned to a zone (section 5.1) and the zone defined as an Entry Delay. A valid Card can unlock the Door, but cannot disarm the partition. If the partition is armed, the Entry Delay is triggered and a User Access Code must be entered to disarm the area. User Option [5]: Arm Only and Access Control Option [2]: Card can Disarm must be disabled for this feature to function. OFF = A valid Card can unlock the Door and disarm the partition.

13.7.4 Access Card Assignment

SECTIONS [1002] TO [1999]: ACCESS CARD SCREEN
The Access Card is activated by assigning its serial number to the User Access Code. Digiplex NE supports 26-bit Wiegand proximity cards and readers (recommended: Position Technology's CR-R880-A reader and CR-R700 Series cards). Enter the serial number manually or present the Access Card to the keypad's reader and its serial number will register automatically.

Access Control defines the days and times people are allowed to enter and exit a site. An Access Control door uses a reader, an Access LCD Keypad or Access Control Module, a Request-for-Exit motion detector, a door contact and an electronic door strike to unlock the door for authorized personnel at authorized times. For details on connecting these devices, refer to the Digiplex/DigiplexNE LCD Keypad and Access Control LCD Keypad Reference & Installation Manual.

Figure 14-1: Typical Access Control Installation



Each person authorized to access the protected area is issued a card. The card is assigned to a User Access Code programmed with an Access Level (see section 14.5) and a Schedule (see section 14.6). When a card is presented to the reader, the control panel determines whether or not to unlock the door depending on if the card is allowed to open that door and if the card is permitted at that particular time and day.

14.1 COMMON ACCESS CONTROL TERMS

Access Alarm: An audible or silent warning generated by the reader to indicate that an Access Door is open past the programmed time allowed or that it was opened without an "Access Granted" or "Request for Exit" signal. This event is logged in the Event Buffer, but cannot be reported.

Access Card: A tag assigned to a User Access Code used to identify the user to the Access Control system. By presenting the tag to a reader, the system can verify whether the tag is valid.

Access Denied: An Access Control term for the system's refusal to admit access through an Access Door.

Access Granted: An Access Control term for the system permitting admission through a protected door.

Burglar Alarm: An audible or silent warning sent to the control panel indicating that an armed zone in the DigiplexNE security system has been breached. This event is logged in the Event Buffer and can be reported to a Monitoring Station.

Door Left Open: Each Access Door is programmed with a period of time it is allowed to remain open. Once the door has been open past this time limit, an Access Alarm will be triggered.

Forced Door: An Access Door was opened without an "Access Granted" or "Request for Exit" signal, a silent or audible Access Alarm can be triggered.

Reader: An Access Control device (Posiprox CR-R880-A) normally located near an Access Door that serves to relay the information from an Access Card presented to it to the control panel.

Request for Exit: When a REX device (Paradoor 460) installed above an Access Door within a protected area detects movement, it sends a request-for-exit signal to the panel.

Valid Card: An Access Card presented to a reader during its assigned Schedule and within its assigned Access Level.

14.2 PROGRAMMING OVERVIEW

Several features and options for Access Control are available in the DigiplexNE system. Some are programmed through the control panel and are explained in this manual. Other features and options are explained in the LCD Keypad and Access Control LCD Keypad Reference & Installation Manual or the Access Control Module Reference & Installation Manual. The following is the **MINIMUM** required to program Access Control:

- Step 1: Enable Access Control in section [3038] option [1]
- Step 2: Assign the Doors in sections [2201] to [2232]
- Step 3: Create the Access Levels in sections [2601] to [2615]
- Step 4: Create the Schedules in sections [2401] to [2432]
- Step 5: Set the Holidays in sections [2701] to [2712]
- Step 6: Program User Access Codes (see section 13 on page 38)
- Step 7: Program the Access LCD Keypads (refer to the Digiplex/DigiplexNE LCD Keypad and Access Control LCD Keypad Reference & Installation Manual) or Access Control Modules (see Modules Programming Guide)

14.3 ENABLE ACCESS CONTROL

SECTION [3038]: OPTION [1]

(Default = disabled) When option [1] is enabled, the Access Control feature is activated. The control panel and the doors must be programmed (see section 14.2).

14.4 DOOR NUMBERING

SECTIONS [2201] TO [2232]

Each door to be monitored and controlled requires an Access Control Keypad (DGP2-641AC) or an Access Control Module (DGP2-ACM1). The keypad or module is assigned to the door through its serial number in sections [2201] to [2232]. DigiplexNE supports up to 32 Doors.

14.5 ACCESS LEVELS

SECTIONS [2601] TO [2615]

Access Levels determine which Doors a user can access. Each Access Level is a combination of the Doors from sections [2201] to [2232] (see section 14.4). Access Levels are assigned to the users through their User Access Codes (refer to the System Manager's Manual).

For example, if the options [1], [2] and [3] are enabled in the First Screen of section [2601], any User assigned to Level 01 will only have access to doors 01, 02, and 03.

Access Levels from 01 to 15 are programmed in sections [2601] to [2615] respectively. Each section contains four screens of 8 options representing the 32 Doors. Level 00 allows the user access to all the Doors. For each Access Level enable or disable the options as required:

Section	Options [1] to [8] represent:			
	1st Screen Doors	2nd Screen Doors	3rd Screen Doors	4th Screen Doors
Level 01: [2601]	01 to 08	09 to 16	17 to 24	25 to 32
to				
Level 15: [2615]	01 to 08	09 to 16	17 to 24	25 to 32

14.6 SCHEDULES

SECTIONS [2401] TO [2432]

The Access Levels described in section 14.5 determine the Doors a user can have access to and the Schedules determine when the user can have access to those Doors.

Each Schedule consists of two programmable time periods called Interval A and Interval B. For each Interval determine when users will have access by programming the Start Time in the first screen and the End Time in the

second screen according to the 24hr. clock (i.e. 9PM = 21:00). The Intervals are only valid during the days programmed in the third screen. Option [8] in the third screen represents the programmed holidays (see section 14.8). When option [8] is enabled, users have access between the Start Time and End Time during the holidays. An Interval cannot cross into another day (overnight). Schedules are assigned to the users through their User Access Codes (refer to the System Manager's Manual).

For example, program Schedule 001 in section [2401]:
 A = Start time 09:00, End time 17:00, options 2, 3, 4, 5, and 6 enabled
 B = Start time 10:00, End time 17:00, options 1, 7, and 8 enabled
 Then, any User Access Code with this Schedule assigned will have access Monday to Friday from 9AM to 5PM and on Saturday, Sunday and Holidays from 10AM to 5PM.

Primary Schedules 001 to 015 are programmed in sections [2401] to [2415] respectively. Secondary Schedules 016 to 032 are programmed in sections [2416] to [2432] respectively. For each Schedule enter the Start Time, End Time and enable or disable the options as required for each Interval. Schedule 000 allows the user access at all times. Only Primary Schedules can be assigned to User Access Codes. Secondary Schedules are used as Backup Schedules (see section 14.7).

Section		Start Time 1st Screen	End Time 2nd Screen	Days 3rd Screen
Schedule 001: [2401] to Schedule 032: [2432]	A:	set as per 24hr. clock	set as per 24hr. clock	[1] = Sunday (S) [2] = Monday (M) [3] = Tuesday (T)
	B:	set as per 24hr. clock	set as per 24hr. clock	[4] = Wednesday (W) [5] = Thursday (T) [6] = Friday (F) [7] = Saturday (S) [8] = Holidays (H)

14.7 BACKUP SCHEDULES

SECTION [2501] TO [2532]
 When an Access Card or User Access Code is used at an Access Door, the control panel verifies whether it was used during its assigned Primary Schedule. If the Primary Schedule is linked to another Schedule, it will verify the linked Schedule and any Schedule linked to it. The control panel will verify up to 8 linked Schedules, one after another, until it determines whether the card or code is valid. Each Schedule (Primary or Secondary) from 001 to 032 can be linked to another Schedule in sections [2501] to [2532] respectively. In each section enter the 3-digit Schedule number of the Schedule to be linked with it.

For example, if Schedule 001 is linked to Schedule 005 and Schedule 005 is linked to Schedule 030, then the control panel will verify Schedules 001, 005 and 030.

14.8 HOLIDAY PROGRAMMING

SECTIONS [2701] TO [2712]
 Holiday Programming identifies the days that are considered holidays in the Schedules. When option [8] is enabled in sections [2401] to [2432], access is permitted during the holidays. Each section from [2701] to [2712] represents a month from January to December respectively. Each section includes four groups of five to eight options that represent the days of the month. Enable the options representing the holidays.

For example, if [1] and [2] are enabled in the first screen in section [2701], then January 1 and 2 are designated as holidays.

14.9 SCHEDULE TOLERANCE WINDOW

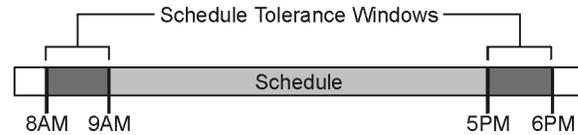
SECTION [3039]
 The Schedule Tolerance Window lengthens the assigned Schedule of some users. User Access Codes with Add Tolerance Windows to Schedules enabled have the number of minutes programmed in [3039] added before and after their Schedule. This feature can be used instead of creating Schedules for each shift and each shift's supervisor by assigning the supervisors to their respective shift's Schedule and enabling Add

Tolerance Windows to Schedules on their User Access Codes. Enter any value between 001 and 255 (default = 000) to determine Schedule Tolerance Window in minutes.

For example, if 060 is programmed in section [3039], users with Add Tolerance Windows to Schedules enabled will have their Schedule extended by 1 hour before and 1 hour after their assigned Schedule (see Figure 14-2).

Figure 14-2: Example of a Schedule Tolerance Window

User's assigned Schedule is 9AM to 5PM. When Add Tolerance Windows to Schedules is enabled for the user, the user has access from 8AM to 6PM.



14.10 DOOR ACCESS MODE

SECTION [2251] TO [2282]: OPTION [1]
 Each Access Door can be assigned to one or more partitions in the security system and each user can be assigned to one or more partitions. This means that the actions performed by the user will be directly linked to the partition(s) assigned to that door. Doors 01 to 32 are programmed in sections [2251] to [2282] respectively. For each door enable or disable the option as required:

Option		Feature
[1]	ON	"OR" Access Door The Access Door grants access or permits arming or disarming to users assigned to at least one of the door's partitions. An "OR" door will arm or disarm only the partitions that it has in common with the users.
[1]	OFF	"AND" Access Door The Access Door grants access or permits arming only to users assigned to all the door's assigned partitions.

14.11 CODE ACCESS

SECTION [2251] TO [2282]: OPTION [2]
 Code Access can allow access to an Access Door by entering a valid User Access Code and pressing the [Acc] key on the Access LCD Keypad instead of using the Access Card. The control panel will verify the User Access Code's validity in the same way it would verify the Access Card (i.e. through its assigned Access Level and Schedule). Doors 01 to 32 are programmed in sections [2251] to [2282] respectively. For each door enable or disable the option as required:

Option		Feature
[2]	ON	[Acc] key enabled
[2]	OFF	Access with Card only

14.12 CARD AND CODE ACCESS

SECTION [2251] TO [2282]: OPTION [3]
 For higher security areas, the Access Door can be programmed to require a user to present a valid Access Card then enter the same user's valid code before access is granted. Doors 01 to 32 are programmed in sections [2251] to [2282] respectively. For each door enable or disable the option as required:

Option		Feature
[3]	ON	Access Card AND User Access Code required
[3]	OFF	Access Card OR User Access Code



When option [3] is enabled, the Access Card must be presented to the reader before the User Access Code is entered on the keypad.

14.13 SKIP EXIT DELAY WHEN ARMING WITH ACCESS CARD

SECTION [3038]: OPTION [6]

(Default = disabled) When an Access Card is presented to a reader twice within approximately 5 seconds with the door closed, some or all the partitions (see section 14.10) assigned to the Access Door can arm with or without starting the Exit Delay. This feature is useful when the reader is outside the partition so the partition(s) can be armed immediately.

Option		When arming with an Access Card:
[6]	ON	The Exit Delay is cancelled
[6]	OFF	The Exit Delay is triggered

14.14 RESTRICT ARMING ON DOOR

SECTION [2251] TO [2282]: OPTION [4]

With option [4] ON, the control panel can prevent an Access Card from arming the partition(s) assigned to the door even if the Access Card is programmed to permit arming.

14.15 RESTRICT DISARMING ON DOOR

SECTION [2251] TO [2282]: OPTION [5]

With option [5] ON, the control panel can prevent an Access Card from disarming the partition(s) assigned to the door even if the Access Card is programmed to permit disarming.

14.16 DOOR ACCESS DURING CLOCK LOSS

SECTION [3038]: OPTION [8]

(Default = disabled) If the system registers a Clock Loss Trouble, the control panel will no longer recognize the Schedules. Only the System Master Code and User Access Codes with the *Master* feature enabled can reset the clock when option [8] is enabled. To avoid Clock Loss, the Time Module (DGP2-TM1) can be installed on the control panel. Enable or disable the option as required:

Option		Until the Clock is reset, access can be granted to:
[8]	ON	The System Master Code or User Access Codes with Full Master or Schedule 00 enabled
[8]	OFF	All users regardless of their programmed Schedules

14.17 BURGLAR ALARM ON FORCED DOOR

SECTION [3038]: OPTION [5]

(Default = disabled) When option [5] is enabled and an Access Door is forced open, it can send a signal to the control panel to trigger the burglar

alarm and to report to the Monitoring Station. The burglar alarm is generated instantly regardless of the zone's definition (i.e. entry delay is ignored). Also, see "Log Door Forced Open Restore In Event Buffer" on page 42.

For Burglar Alarm on Forced Door to function, the following must be done:

- Install a door contact and connect it to the door's Access Control LCD Keypad or Access Control Module
- Assign the door's Access Control LCD Keypad or Access Control Module to a zone (see "Zone Programming" on page 16)
- Enable option [5] in section [3038]: Burglar Alarm on Forced Door

14.18 LOGGING ACCESS CONTROL EVENTS

14.18.1 Log Request For Exit In Event Buffer

SECTION [3038]: OPTION [2]

(Default = disabled) When a Request-for-Exit (REX) device registers movement at the door, a REX event is generated (see section 14.1). When option [2] is enabled, the control panel can record the REX events generated from all the Doors in the Event Buffer, but cannot report these events to the Monitoring Station. The events can be viewed by entering the *Event Record Display* (see section 16.9).



Since REX events can occur often, the Event Buffer may fill up quickly.

14.18.2 Log Door Left Open Restore In Event Buffer

SECTION [3038]: OPTION [3]

(Default = disabled) Door Left Open Restore means that an Access Door closed after it was left open beyond its keypad's programmed Door Left Open Interval (refer to the Digiplex/DigiplexNE LCD Keypad and Access Control LCD Keypad Reference & Installation Manual). When option [3] is enabled, the Door Left Open Restore event can be recorded in the Event Buffer. These events cannot be reported to the Monitoring Station, but can be viewed by entering the *Event Record Display* (see section 16.9).

14.18.3 Log Door Forced Open Restore In Event Buffer

SECTION [3038]: OPTION [4]

(Default = disabled) Door Forced Open Restore means that an Access Door's door contact closes after it was opened without the use of a valid Access Card or User Access Code or receiving a Request for Exit signal. When option [4] is enabled, the Door Forced Open Restore event can be recorded in the Event Buffer. This event cannot be reported to the Monitoring Station, but it can be viewed by entering the *Event Record Display* (see section 16.9).

15.1 PANEL IDENTIFIER

SECTION [3011]

(Default = 0000) The Panel Identifier identifies the control panel to WinLoad before initiating upload or download. The control panel will verify if the Panel Identifier in WinLoad is the same. If the codes do not match, the control panel will not establish communication. Therefore, program the same Panel Identifier into both the control panel and WinLoad. Enter the desired 4-digit hexadecimal number into section [3011].

15.2 PC PASSWORD

SECTION [3012]

(Default = 0000) The PC Password identifies the computer running the WinLoad software to the control panel before beginning the download process. Program the same PC Password into both the control panel and WinLoad. If the passwords do not match, WinLoad will not establish communication. Enter the desired four-digit hexadecimal number into section [3012].

15.3 PC TELEPHONE NUMBER

SECTION [3010]

The control panel dials this number to communicate with a computer using WinLoad. Enter any digit from 0 to 9 and any special keys or functions (see Table 3, *Special Telephone Number Keys*, on page 30) up to a maximum of 32 digits into section [3010].

15.4 CALL BACK FEATURE

SECTION [3037]: OPTION [1]

(Default = disabled) The Call Back Feature provides additional security. When option [1] is enabled and a computer using WinLoad attempts to communicate with the control panel, the control panel hangs up and calls the computer back to re-verify identification codes and re-establish communication. When the control panel hangs up, WinLoad automatically goes into *Wait For Call Mode*, ready to answer when the control panel calls back. The PC Telephone Number must be programmed (see section 15.3).

15.5 CALL WINLOAD

To communicate with WinLoad, press and hold the [0] key, enter the [INSTALLER CODE] and press [FORCE] to dial the PC Telephone Number programmed in section [3010]. The control panel and WinLoad verify that the Panel Identifier and the PC Password match before establishing communication.

15.6 ANSWER WINLOAD

To perform on-site uploading/downloading, connect the computer directly to the control panel using an ADP-1 line adapter. In WinLoad set *Dialing Condition* to *Blind Dial*. Program the PC telephone number in WinLoad and follow the ADP-1 Adapter's instructions. When the computer has dialed, press and hold the [0] key, enter the [INSTALLER CODE] and press [ARM] to manually answer WinLoad from the panel. Press [DISARM] to hang up.

15.7 ANSWERING MACHINE OVERRIDE DELAY

SECTION [3052]

(Default = 008) If WinLoad will be used to communicate with an installation that uses an answering machine or service, program the Answering Machine Override. If the installation is called back within the programmed delay period, the Answering Machine Override will bypass the answering machine or service by picking up the line on the first ring. Also, see section 15.8.

In section [3052] program a value (00 to 15 X 4 seconds, 00 = disabled) representing the delay period the control panel will wait between the first and second call.

To use:

Step 1: Using WinLoad, call the installation and on the second ring press the [ENTER] key on the keyboard to hang up or hang up manually.

Step 2: After hanging up, WinLoad will immediately call the installation back or call the site back manually.

For example, an answering machine is set to answer after three rings and section [3052] is programmed with 10 (10 x 4 = 40 seconds). During the first call with WinLoad, wait two rings and press [ENTER]. WinLoad will immediately call the site back. If the second call is made within 40 seconds, the control panel will pick up the line on the first ring. If it takes more than 40 seconds, the control panel will not answer on the first ring and the answering machine will answer after three rings.

15.8 RING COUNTER

SECTION [3051]

(Default = 008) The Ring Counter represents the number of rings the control panel will wait before picking up the line. If the line is not answered after the number of programmed rings, the control panel answers the call. If more than 10 seconds pass between each ring, the Ring Counter resets. Also, see section 15.7. Enter any value between 01 to 15 (00 = disabled) to determine the number of rings.

15.9 EVENT BUFFER TRANSMISSION

SECTION [3037]: OPTION [2]

(Default = disabled) Once the Event Buffer contains 1998 events since the last upload, the control panel makes two attempts to establish communication with a computer using WinLoad by calling the PC Telephone Number programmed in section [3010]. WinLoad must be in *Wait To Dial* mode. When communication is established, the control panel uploads the contents of the Event Buffer to WinLoad. If communication is interrupted before completing transmission or communication is not established after two attempts, the control panel wait until the Event Buffer receives another 1998 events before attempting Event Buffer Transmission. When the Event Buffer is full, each subsequent new event will erase the oldest event in the buffer. The Event Buffer can hold 2048 Events.

16.1 REGULAR ARMING

This method is used for the everyday arming of the system. All zones within the partition must be closed to arm the system. The system can also be Regular Armed by using a One-touch Feature (see section 7.14) or a Keyswitch (see section 6.4.3). All users are able to Regular Arm the partition(s) assigned to their User Access Codes. **To Regular Arm**, users:

- 1) Enter their [ACCESS CODE]
- 2) Press the [ARM] key. If the code is assigned to several partitions, press the key corresponding to the desired partition or press [0] to arm all their assigned partitions.

16.2 STAY ARMING

Stay Arming partially arms the partition to permit the user to remain in the partition. *Stay Zones* (see section 5.5.3) will not arm when Stay Arming. Partitions can also be armed by the Stay Arm One-touch Feature (see section 7.14) or a Keyswitch (see section 6.4.4). Only User Access Codes with the *Stay and Instant Arm* option enabled can Stay Arm a partition.

For example, arm the doors and windows without arming the motion detectors.

To Stay Arm, users:

- 1) Enter their [ACCESS CODE]
- 2) Press the [STAY] key. If the users have access to more than one partition, they can press the key corresponding to the desired partition or press [0] to arm all their assigned partitions.

16.2.1 Stay Arming with Delay

Stay Arming with Delay functions like Stay Arming except armed zones are programmed with an *Entry Delay Timer* (see section 5.3.14). If a zone is triggered, the delay starts allowing the user time to disarm the partition(s).

16.3 INSTANT ARMING

Similar to *Stay Arming*, Instant Arming partially arms the partition to permit the user to remain in the partition, but all zones become Instant zones. Partitions can also be armed by the Instant One-touch Feature (see section 7.14) or a Keyswitch (see section 6.4.6). Only User Access Codes with the *Stay and Instant Arm* option enabled can Instant Arm a partition. **To Instant Arm**, users:

- 1) Enter their [ACCESS CODE]
- 2) Press the [5] key. If the users have access to more than one partition, they can press the key corresponding to the desired partition or press [0] to arm all their assigned partitions.

16.3.1 Instant Arming with Delay

Instant Arming with Delay functions like Instant Arming except armed zones are programmed with an *Entry Delay Timer* (see section 5.3.14). If a zone is triggered, the delay starts allowing the user time to disarm the partitions.

16.4 FORCE ARMING

Force Arming allows the user to arm a partition when Force zones are open (see section 5.5.4). Once the open zone in an armed partition is closed, the system will then arm it as well. This feature is commonly used when a motion detector is protecting an area that is occupied by a keypad. The system can also be Force Armed by using a One-touch Feature (see section 7.14) or a Keyswitch (see section 6.4.5). Only User Access Codes with the *Force Arm* option enabled can Force Arm a partition.

For example, during Force arming the motion detector remains unarmed until the user exits the area. The system will then arm the motion detector.

To Force Arm, users:

- 1) Enter their [ACCESS CODE]
- 2) Press the [FORCE] key. If the users have access to more than one partition, they can press the key corresponding to the desired partition or press [0] to arm all their assigned partitions.

16.5 DISARMING

All users can disarm, **except** users with Arm Only (see section 13.5) enabled on their User Access Codes. Users can only disarm the partitions assigned to their User Access Codes. The Stay or Instant Armed partitions can also be Disarmed by using a One-touch Feature. **To disarm**, users:

- 1) Enter through a designated entry. The Entry Delay Timer will begin.
- 2) Enter their [ACCESS CODE]
- 3) Press the [DISARM] key

16.6 BYPASS PROGRAMMING

Bypass Programming allows users to program the security system to ignore specified zones the next time the partition is armed. To bypass a zone, the zone must have the *Bypass* option enabled, the User Access Code must have the *Bypass* option enabled, and the zone must be within the User Access Code's partition assignment. **To Bypass**, users:

- 1) Enter their [ACCESS CODE]
- 2) Press the [BYP] key
- 3) Enter the zone's 2-digit number or use the [▲] and [▼] keys and press the [BYP] key when the zone appears on-screen.
- 4) Press [ENTER] key to exit

Users can also activate *Bypass Recall*. Bypass Recall reinstates all the zones that were bypassed the last time the partition(s) assigned to the User Access Code were armed. **To activate Bypass Recall**, users:

- 1) Enter their [ACCESS CODE]
- 2) Press the [BYP] key
- 3) Press the [MEM] key
- 4) Press [ENTER] key to exit

16.7 CHIME ZONES

The keypads can emit rapid, intermittent beeps whenever designated zones within their assigned partitions open or when they open during a time period. **To program a Chime Zone**, users:

- 1) Enter their [ACCESS CODE]
- 2) Press the [9] key
- 3) Press the [1] key
- 4) Enter the zone's 2-digit number or use the [▲] and [▼] keys to scroll the list and press the [ACC] key when the zone appears on-screen
- 5) Press [ENTER] key to save

To program a time period when the Chime Zones are activated, users:

- 1) Enter their [ACCESS CODE]
- 2) Press the [9] key
- 3) Press the [2] key
- 4) Enter the time that keypads will **start** beeping when Chime Zones are opened according to the 24-hour clock (i.e. 9PM is 21:00).
- 5) Enter the time that keypads will **stop** beeping when Chime Zones are opened according to the 24-hour clock (i.e. 9PM is 21:00).
- 6) Press [ENTER] key to save

16.8 KEYPAD SETTINGS

The keypad's settings can be modified to suit the user's needs. **Scrolling Speed** is how long the messages stay on the LCD screen before moving to the next message. **Backlight**: is the illumination behind the keys and the screen. **Contrast**: is how dark the characters appear on the LCD screen.

- 1) Enter the [USER ACCESS CODE]
- 2) Press [6]
- 3) Press [1]: Scrolling Speed from 0 to 10 (10 = slowest)
Press [2]: Backlight from 0 to 7 (7 = brightest)
Press [3]: Contrast from 0 to 4 (4 = most contrast)
- 4) Use the [▲] and [▼] keys to increase or decrease the numbers
- 5) Press [ENTER]
- 6) Press [CLEAR] to exit or the [▼] key to move to the next setting

16.9 EVENT RECORD DISPLAY

The Event Record Display displays the user-initiated events that occurred in the system as well as any alarms or troubles. The events from all the partitions can scroll on the LCD screen or can be viewed by partition. The most recent event is displayed first. To view the events:

- 1) Enter a User Access Code
- 2) Press the [7] key
- 3) Press

Key	Displays:	Key	Displays:
[0]	All partitions	[5]	Partition 5
[1]	Partition 1	[6]	Partition 6
[2]	Partition 2	[7]	Partition 7
[3]	Partition 3	[8]	Partition 8
[4]	Partition 4		

- 4) Press the [▼] key to view subsequent events
- 5) Press the [CLEAR] key to exit

Change the order that the Event Record screens appear by pressing the [7] key. If you already know the number of the event you want to view, press the [MEM] key and then enter the event's number.

16.10 SCROLL RESTART

The keypad scrolls through the status its assigned partitions. Press the [CLEAR] key at any time to return to the beginning of the sequence.

16.11 TROUBLE DISPLAY

When the system experiences problems or is tampered with, the Trouble Display appears on the LCD screen. Keypads will only display troubles that occur in their assigned partition(s). Potential troubles have been sorted into eight groups. The Group headings are listed below with a brief explanation of the potential troubles sorted within each group. To view:

Step 1: Press the [TRBL] key

Step 2: Press the number representing the trouble and press the [▲] and [▼] keys to view the specific trouble.

Trouble	Description
GROUP [1]: SYSTEM	
AC Failure	Power failure detected. The system is running on the backup battery.
Battery Trouble	The backup battery is disconnected, needs to be recharged or replaced.
AUX Current Limit	Devices connected to AUX have exceeded current limits (1.1A). The Auxiliary Output will shutdown until the trouble is corrected.
Bell Current Limit	The bell or siren has exceeded current limits (3A). The Bell/Siren Output will shutdown until the trouble is corrected.
Bell Absent	The bell or siren is not connected. When the bell output is not used, connect a 1kΩ resistor across the bell output.
ROM Check Error	The control panel registers a data memory error. Contact distributor for replacement.
RAM Check Error	The control panel registers a work memory error. Contact distributor for replacement.
GROUP [2]: COMMUNICATOR	
TLM1	The control panel is unable to access the main telephone line.
Fail to Communicate 1 Fail to Communicate 2 Fail to Communicate 3 Fail to Communicate 4	The control panel tried all assigned telephone numbers and failed to contact the Monitoring Company.

Trouble	Description
Fail to Communicate PC	The control panel is unable to communicate with the WinLoad software.
GROUP [3]: MODULES	
Module Tamper	A module's tamper switch was triggered
ROM Check Error	A module is experiencing a data memory error. Contact distributor for replacement.
TLM Trouble	A module is unable to access the telephone line.
Fail to Communicate	A module failed to communicate with the Monitoring Company.
Printer Trouble	The control panel registers a problem with a printer connected to a Printer Module. Check printer for problems (paper jam, no paper, no power, etc.).
AC Failure	Module power failure.
Battery Failure	Module's battery is disconnected, needs to be recharged or needs to be replaced.
Supply Output	Module has exceeded current limits.
GROUP [4]: COMMUNICATION NETWORK	
Missing Keypad	A keypad is no longer communicating with the control panel.
Missing Module	A device is no longer communicating with the control panel.
General Failure	No communication between the devices and the control panel.
Network Overload	Too many devices (over 127) are on the communication network.
Network Comm Err	Communication difficulty between the modules and the control panel.
GROUP [5]: ZONE TAMPER	
Press [5] to display zone(s)	Zones displayed were tampered.
GROUP [6]: ZONE LOW BATTERY	
Press [6] to display zone(s)	Zone displayed indicates where a wireless device's battery needs to be replaced. Also, the device's yellow light will flash.
GROUP [7]: ZONE FAULT	
Press [7] to display zone(s)	A smoke detector is experiencing a wiring problem, needs to be cleaned, or a wireless device is no longer communicating with its receiver (supervision loss).
GROUP [8]: CLOCK LOSS	
Press [8] to re-program	The time and date were reset to default. Step 1: Press the [8] key Step 2: Set the hour and minutes according to the 24-hour clock (i.e. 9AM is 09:00 and 9PM is 21:00). Step 3: Enter the correct date according to yyyy/mm/dd. Step 4: Press [CLEAR] to exit.



If Access Control is enabled in the system and the option Door Access during Clock Loss is ON (section [3038] option [8]), only the System Master Code and User Codes with the Master feature enabled will be able to program the clock. Enter the System Master or a Master Code, press [TRBL], then continue with the steps above.

APPENDIX 1: PGM PROGRAMMING TABLE

Event Group	Event	Feature Group	Feature	Start #	End #
000	Zone is OK	000 255 = any Zone #	Zone Numbers	001 to 096	001 to 096
001	Zone is Open			001 to 096	001 to 096
002	Zone is Tampered			001 to 096	001 to 096
003	Zone is in Fire Loop Trouble			001 to 096	001 to 096
004	Non-reportable Event	000	TLM Trouble	000	000
			Smoke detector reset	001	001
			Arm with no entry delay	002	002
			Arm in Stay mode	003	003
			Arm in Away mode	004	004
			Full arm when in Stay mode	005	005
			Voice module access	006	006
			Remote control access	007	007
			PC Fail to communicate	008	008
			Midnight	009	009
			NEware/WinLoad User Login	010	010
			NEware/WinLoad User Logout	011	011
			User Initiated Call-up	012	012
		Force Answer	013	013	
Force Hang up	014	014			
		255	Any Non-reportable Event	Not Used	Not Used
005	User Code entered on Keypad	000	User Codes 000 to 255	000 to 255	000 to 255
		001	User Codes 256 to 511	000 to 255	000 to 255
		002	User Codes 512 to 767	000 to 255	000 to 255
		003	User Codes 768 to 999	000 to 231	000 to 231
		255	Any User Code	Not Used	Not Used
006	User/Card Access on Door	000	Door Numbers	001 to 032	001 to 032
		255	Any door #	Not Used	Not Used
007	Bypass Programming Access	000	One-touch Bypass Programming	000	000
		000	User Codes 001 to 255	001 to 255	001 to 255
		001	User Codes 256 to 511	000 to 255	000 to 255
		002	User Codes 512 to 767	000 to 255	000 to 255
		003	User Codes 768 to 999	000 to 231	000 to 231
		255	Any User Code	Not Used	Not Used
008	TX Delay Zone Alarm	000	Zone Numbers	001 to 096	001 to 096
		255	Any zone #	Not Used	Not Used
009	Arming with Master	000	User Codes 001 to 255	001 to 255	001 to 255
		001	User Codes 256 to 511	000 to 255	000 to 255
		002	User Codes 512 to 767	000 to 255	000 to 255
		003	User Codes 768 to 999	000 to 231	000 to 231
		255	Any User Code	Not Used	Not Used
010	Arming with User Code	000	User Codes 001 to 255	001 to 255	001 to 255
		001	User Codes 256 to 511	000 to 255	000 to 255
		002	User Codes 512 to 767	000 to 255	000 to 255
		003	User Codes 768 to 999	000 to 231	000 to 231
		255	Any User Code	Not Used	Not Used
011	Arming with Keyswitch	000	Keyswitch numbers	001 to 032	001 to 032
		255	Any keyswitch	Not Used	Not Used

Event Group	Event	Feature Group	Feature	Start #	End #
012	<i>Special Arming</i>	000	Auto Arming	000	000
			Arming with WinLoad	001	001
			Late to Close	002	002
			No Movement Arming	003	003
			Partial Arming	004	004
			One-touch Arming	005	005
			Future Use	006	006
			Future Use (InTouch) Voice Module Arming	007 008	007 008
		255	Any special arming event	Not Used	Not Used
013	<i>Disarm with Master</i>	000	User Codes 001 to 255	001 to 255	001 to 255
		001	User Codes 256 to 511	000 to 255	000 to 255
		002	User Codes 512 to 767	000 to 255	000 to 255
		003	User Codes 768 to 999	000 to 231	000 to 231
		255	Any User Code	Not Used	Not Used
014	<i>Disarm with User Code</i>	000	User Codes 001 to 255	001 to 255	001 to 255
		001	User Codes 256 to 511	000 to 255	000 to 255
		002	User Codes 512 to 767	000 to 255	000 to 255
		003	User Codes 768 to 999	000 to 231	000 to 231
		255	Any User Code	Not Used	Not Used
015	<i>Disarm with Keypad</i>	000	Keypad numbers	001 to 032	001 to 032
		255	Any keypad	Not Used	Not Used
016	<i>Disarm after alarm with Master</i>	000	User Codes 001 to 255	001 to 255	001 to 255
		001	User Codes 256 to 511	000 to 255	000 to 255
		002	User Codes 512 to 767	000 to 255	000 to 255
		003	User Codes 768 to 999	000 to 231	000 to 231
		255	Any User Code	Not Used	Not Used
017	<i>Disarm after alarm with User Code</i>	000	User Codes 001 to 255	001 to 255	001 to 255
		001	User Codes 256 to 511	000 to 255	000 to 255
		002	User Codes 512 to 767	000 to 255	000 to 255
		003	User Codes 768 to 999	000 to 231	000 to 231
		255	Any User Code	Not Used	Not Used
018	<i>Disarm after alarm with Keypad</i>	000	Keypad numbers	001 to 032	001 to 032
		255	Any keypad	Not Used	Not Used
019	<i>Alarm Cancelled with Master</i>	000	User Codes 001 to 255	001 to 255	001 to 255
		001	User Codes 256 to 511	000 to 255	000 to 255
		002	User Codes 512 to 767	000 to 255	000 to 255
		003	User Codes 768 to 999	000 to 231	000 to 231
		255	Any User Code	Not Used	Not Used
020	<i>Alarm Cancelled with User Code</i>	000	User Codes 001 to 255	001 to 255	001 to 255
		001	User Codes 256 to 511	000 to 255	000 to 255
		002	User Codes 512 to 767	000 to 255	000 to 255
		003	User Codes 768 to 999	000 to 231	000 to 231
		255	Any User Code	Not Used	Not Used
021	<i>Alarm Cancelled with Keypad</i>	000	Keypad numbers	001 to 032	001 to 032
		255	Any keypad	Not Used	Not Used

Event Group	Event	Feature Group	Feature	Start #	End #
022	<i>Special Disarming</i>	000	Auto Arm Cancelled	000	000
			One-touch Stay/Instant Disarm	001	001
			Disarming with WinLoad	002	002
			Disarming with WinLoad after alarm	003	003
			WinLoad cancelled alarm	004	004
			Future Use	005	005
			Future Use	006	006
			Future Use	007	007
			(InTouch) Voice Module Disarming	008	008
		255	Any Special Disarming Event	Not Used	Not Used
023	<i>Zone Bypassed</i>	000 255 = any zone #	Zone Numbers	001 to 096	001 to 096
024	<i>Zone in Alarm</i>			001 to 096	001 to 096
025	<i>Fire Alarm</i>			001 to 096	001 to 096
026	<i>Zone Alarm Restore</i>			001 to 096	001 to 096
027	<i>Fire Alarm Restore</i>			001 to 096	001 to 096
028	<i>Early to Disarm by User</i>	000	User Codes 001 to 255	001 to 255	001 to 255
		001	User Codes 256 to 511	000 to 255	000 to 255
		002	User Codes 512 to 767	000 to 255	000 to 255
		003	User Codes 768 to 999	000 to 231	000 to 231
		255	Any User Code	Not Used	Not Used
029	<i>Late to Disarm by User</i>	000	User Codes 001 to 255	001 to 255	001 to 255
		001	User Codes 256 to 511	000 to 255	000 to 255
		002	User Codes 512 to 767	000 to 255	000 to 255
		003	User Codes 768 to 999	000 to 231	000 to 231
		255	Any User Code	Not Used	Not Used
030	<i>Special Alarm</i>	000	Emergency Panic (keys 1 & 3)	000	000
			Medical Panic (keys 4 & 6)	001	001
			Fire Panic (keys 7 & 9)	002	002
			Recent Closing	003	003
			Police Code	004	004
			Zone Shutdown	005	005
		255	Any Special Alarm Event	Not Used	Not Used
031	<i>Duress Alarm by User</i>	000	User Codes 001 to 255	001 to 255	001 to 255
		001	User Codes 256 to 511	000 to 255	000 to 255
		002	User Codes 512 to 767	000 to 255	000 to 255
		003	User Codes 768 to 999	000 to 231	000 to 231
		255	Any User Code	Not Used	Not Used
032	<i>Zone Shutdown</i>	000 255 = any zone #	Zone Numbers	001 to 096	001 to 096
033	<i>Zone Tamper</i>			001 to 096	001 to 096
034	<i>Zone Tamper Restore</i>			001 to 096	001 to 096
035	<i>Special Tamper</i>	000	Keypad Lockout	000	000
036	<i>Trouble Event</i>	000	TLM Trouble (see NOTE 2 on page 51)	000	000
			AC Failure	001	001
			Battery Failure	002	002
			Auxiliary Current Limit	003	003
			Bell Current Limit	004	004
			Bell Absent	005	005
			Clock Trouble	006	006
			Global Fire Loop	007	007
		255	Any Trouble Event	Not Used	Not Used

Event Group	Event	Feature Group	Feature	Start #	End #
037	Trouble Restore	000	TLM Trouble (see NOTE 2 on page 51)	000	000
			AC Failure	001	001
			Battery Failure	002	002
			Auxiliary Current Limit	003	003
			Bell Current Limit	004	004
			Bell Absent	005	005
			Clock Trouble	006	006
		Global Fire Loop	007	007	
		255	Any Trouble Restore Event	Not Used	Not Used
038	Module Trouble	000	Communication Network Fault	000	000
			Module Tamper	001	001
			ROM/RAM error	002	002
			TLM Trouble	003	003
			Fail to Communicate	004	004
			Printer Fault	005	005
			AC Failure	006	006
			Battery Failure	007	007
		Auxiliary Failure	008	008	
		255	Any Module Trouble Event	Not Used	Not Used
039	Module Trouble Restore	000	Communication Network Fault	000	000
			Module Tamper	001	001
			ROM/RAM error	002	002
			TLM Trouble	003	003
			Fail to Communicate	004	004
			Printer Fault	005	005
			AC Failure	006	006
			Battery Failure	007	007
		Auxiliary Failure	008	008	
		255	Any Module Trouble Restore Event	Not Used	Not Used
040	Fail to Communicate on Telephone Number	000	Telephone Number	001 to 004	001 to 004
		255	Any telephone number	Not Used	Not Used
041	Low Battery on Zone	000 255 = any Zone #	Zone Numbers	001 to 096	001 to 096
042	Zone Supervision Trouble			001 to 096	001 to 096
043	Low Battery on Zone Restored			001 to 096	001 to 096
044	Zone Supervision Trouble Restored			001 to 096	001 to 096
045	Special Events	000	Power up after total power down	000	000
			Software reset (Watchdog)	001	001
			Test Report	002	002
			Future Use	003	003
			WinLoad In (connected)	004	004
			WinLoad Out (disconnected)	005	005
			Installer in programming	006	006
		Installer out of programming	007	007	
		255	Any Special Event	Not Used	Not Used
046	Early to Arm by User	000	User Codes 001 to 255	001 to 255	001 to 255
		001	User Codes 256 to 511	000 to 255	000 to 255
		002	User Codes 512 to 767	000 to 255	000 to 255
		003	User Codes 768 to 999	000 to 231	000 to 231
		255	Any User Code	Not Used	Not Used
047	Late to Arm by User	000	User Codes 001 to 255	001 to 255	001 to 255
		001	User Codes 256 to 511	000 to 255	000 to 255
		002	User Codes 512 to 767	000 to 255	000 to 255
		003	User Codes 768 to 999	000 to 231	000 to 231
		255	Any User Code	Not Used	Not Used

Event Group	Event	Feature Group	Feature	Start #	End #
048	Utility Key Pressed	000	Key Pressed	001 to 032	001 to 032
		255	Any Utility Key	Not Used	Not Used
049	Request for Exit	000 255 = any Door Number	Door Numbers	001 to 032	001 to 032
050	Access Denied			001 to 032	001 to 032
051	Door Left Open Alarm			001 to 032	001 to 032
052	Door Forced Alarm			001 to 032	001 to 032
053	Door Left Open Restore			001 to 032	001 to 032
054	Door Forced Open Restore			001 to 032	001 to 032
055	Intellizone Triggered	000	Zone Numbers	001 to 096	001 to 096
		255	Any zone number	Not Used	Not Used
056 to 063	Future Use	Future Use	Future Use	Future Use	Future Use
064	Status 1	See Note 1 on page 51	Armed	000	000
			Force Armed	001	001
			Stay Armed	002	002
			Instant Armed	003	003
			Strobe Alarm	004	004
			Silent Alarm	005	005
			Audible Alarm	006	006
065	Status 2	See Note 1 on page 51	Fire Alarm	007	007
			Ready	000	000
			Exit Delay	001	001
			Entry Delay	002	002
			System in Trouble	003	003
			Alarm in Memory	004	004
			Zones Bypassed	005	005
066	Status 3	See Note 1 on page 51	Bypass, Master, Installer Programming	006	006
			Keypad Lockout	007	007
			Intellizone Engaged (see Note 3 on page 51)	000	000
			Fire Delay Engaged	001	001
			Auto Arm	002	002
			Future Use	003	003
			Tamper	004	004
067	Special Status	N/A	Zone Low Battery	005	005
			Fire Loop Trouble	006	006
			Zone Supervision Trouble	007	007
			Chime in Partition 1 to 4 (000 to 003 = System 1 to 4)	000 to 003	000 to 003
			Smoke Detector Power Reset	004	004
			Ground Start	005	005
			Kiss Off	006	006
			Future Use	007	007
			Bell on Partition 1 to 8 (008 to 015 = Partitions 1 to 8)	008 to 015	008 to 015
			Fire Alarm in Partition 1 to 8 (016 to 023 = Partitions 1 to 8)	016 to 023	016 to 023
			Open/close Kiss Off in Partition 1 to 8 (024 to 031 = Partitions 1 to 8)	024 to 031	024 to 031
067	Special Status	N/A	Keyswitch/PGM Inputs # 01 to 32 (032 to 063 = Keyswitch/PGM Inputs # 01 to 32)	032 to 063	032 to 063
			Status of Access Door 01 to 32 (064 to 095 = Access Doors 01 to 32)	064 to 095	064 to 095
			Trouble in System	096	096
			Trouble in Dialer	097	097
			Trouble in Module	098	098

Event Group	Event	Feature Group	Feature	Start #	End #
067	<i>Special Status (con't)</i>	N/A	Trouble in communication network	099	099
			Future Use	100 to 102	100 to 102
			Time and Date Trouble	103	103
			AC Failure	104	104
			Battery Failure	105	105
			Auxiliary Current Limit	106	106
			Bell Current Limit	107	107
			Bell Absent	108	108
			ROM error	109	109
			RAM error	110	110
			Future Use	111	111
			TLM 1 Trouble	112	112
			Fail to Communicate 1	113	113
			Fail to Communicate 2	114	114
			Fail to Communicate 3	115	115
			Fail to Communicate 4	116	116
			Fail to Communicate with PC	117	117
			Future Use	118	118
			Future Use	119	119
			Module Tamper Trouble	120	120
			Module ROM error	121	121
			Module TLM error	122	122
			Module Failure to Communicate	123	123
			Module Printer Trouble	124	124
			Module AC Failure	125	125
			Module Battery Trouble	126	126
			Module Auxiliary Failure	127	127
			Missing Keypad	128	128
			Missing Module	129	129
			Future Use	130 to 132	130 to 132
Global Network Failure	133	133			
Network Overload	134	134			
Network Fail to Communicate	135	135			
070	<i>Clock</i>	N/A		Hour	Minutes

NOTE 1:

- 255 = Occurs in at least one partition enabled in the system.
000 = Occurs in all partitions enabled in the system (see section [3031]).
001 = Partition 1 005 = Partition 5
002 = Partition 2 006 = Partition 6
003 = Partition 3 007 = Partition 7
004 = Partition 4 008 = Partition 8

NOTE 2:

The TLM trouble event can only be used with the Digiplex NE control panel models that have two dialers.

NOTE 3:

This event cannot be used for a module's PGM programming.

APPENDIX 2: AUTOMATIC REPORT CODE LIST

System Event	Default Contact ID Report Code for sections [4032] to [4037]	Default SIA Report Code for sections [4032] to [4037]
Arming with Master Code (##)	3 4A1 - Close by user	CL - Closing Report
Arming with User Code (##)	3 4A1 - Close by user	CL - Closing Report
Arming with Keyswitch (##)	3 4A9 - Keyswitch Close	CS - Closing Keyswitch
Auto Arming	3 4A3 - Automatic Close	CA - Automatic Closing
Arm with PC software	3 4A7 - Remote arm/disarm	CL - Closing Report
Late To Close	1 4A4 - Late to Close	OT - Late to Close
No Movement	1 4A4 - Late to Close	NA - No Activity
Partial arming	1 574 - Group bypass	CG - Close Area
Quick arming	3 408 - Quick arm	CL - Closing Report
Disarm with Master Code (##)	1 4A1 - Open by user	OP - Opening Report
Disarm with User Code (##)	1 4A1 - Open by user	OP - Opening Report
Disarm with Keyswitch (##)	1 4A9 - Keyswitch Open	OS - Opening Keyswitch
Disarm after alarm with Master Code (##)	1 4A1 - Open by user	OR - Disarm From Alarm
Disarm after alarm with User Code (##)	1 4A1 - Open by user	OR - Disarm From Alarm
Disarm after alarm with Keyswitch (##)	1 4A9 - Keyswitch Open	OS - Opening Keyswitch
Auto Arming Cancellation	1 4A5 - Deferred Open/Close	CE - Closing Extend
Disarm with PC software	1 4A7 - Remote arm/disarm	OP - Opening Report
Disarm after an alarm with PC software	1 4A7 - Remote arm/disarm	OR - Disarm From Alarm
Quick Disarm	1 408 - Quick Disarm	OP - Opening Report
Zone Bypassed (##)	1 57A - Zone bypass	UB - Untyped Zone Bypass
Zone alarm (##)	1 13A - Burglary Alarm	BA - Burglary Alarm
Fire alarm (##)	1 11A - Fire alarm	FA - Fire Alarm
Zone alarm restore (##)	3 13A - Burglary Alarm Restore	BH - Burglary Alarm Restore
Fire alarm restore (##)	3 11A - Fire alarm Restore	FH - Fire Alarm Restore
24Hr Gas alarm (##)	1 13A - Burglary Alarm	GA - Gas Alarm
24Hr Heat alarm (##)	1 13A - Burglary Alarm	KA - Heat Alarm
24Hr Water alarm (##)	1 13A - Burglary Alarm	WA - Water Alarm
24Hr Freeze alarm (##)	1 13A - Burglary Alarm	ZA - Freeze Alarm
24Hr Gas alarm restore (##)	1 13A - Burglary Alarm	GR - Gas Alarm Restore
24Hr Heat alarm restore (##)	1 13A - Burglary Alarm	KR - Heat Alarm Restore
24Hr Water alarm restore (##)	1 13A - Burglary Alarm	WR - Water Alarm Restore
24Hr Freeze alarm restore (##)	1 13A - Burglary Alarm	ZR - Freeze Alarm Restore
Panic 1 - Emergency	1 12A - Panic alarm	PA - Panic Alarm
Panic 2 - Medical	1 1AA - Medical alarm	MA - Medical Alarm
Panic 3 - Fire	1 115 - Pull Station	FA - Fire Alarm
Recent closing	3 4AA - Open/Close	CR - Recent Closing
Global zone shutdown	1 574 - Group bypass	CG - Close Area
Duress alarm	1 121 - Duress	HA - Hold-up Alarm
Zone shutdown (##)	1 57A - Zone bypass	UB - Untyped Zone Bypass
Zone tampered (##)	1 144 - Sensor tamper	TA - Tamper Alarm
Zone tamper restore (##)	3 144 - Sensor tamper restore	TR - Tamper Restoral
Keypad Lockout	1 421 - Access denied	JA - User Code Tamper
AC Failure	1 3A1 - AC loss	AT - AC Trouble
Battery Failure	1 3A9 - Battery test failure	YT - System Battery Trouble
Auxiliary supply trouble	1 3AA - System trouble	YP - Power Supply Trouble
Bell output current limit	1 321 - Bell 1	YA - Bell Fault
Bell absent	1 321 - Bell 1	YA - Bell Fault
Clock lost	1 626 - Time/Date inaccurate	JT - Time Changed
Fire loop trouble	1 373 - Fire trouble	FT - Fire Trouble
TLM trouble restore	3 351 - Telco 1 fault restore	LR - Phone Line restoral
AC Failure restore	3 3A1 - AC loss restore	AR - AC Restoral
Battery Failure restore	3 3A9 - Battery test restore	YR - System Battery Restoral
Auxiliary supply trouble restore	3 3AA - System trouble restore	YQ - Power Supply restored
Bell output current limit restore	3 321 - Bell 1 restore	YH - Bell Restored

System Event	Default Contact ID Report Code for sections [4032] to [4037]	Default SIA Report Code for sections [4032] to [4037]
Bell absent restore	3 321 - Bell 1 restore	YH - Bell Restored
Clock programmed	3 625 - Time/Date Reset	JT - Time Changed
Fire loop trouble restore	3 373 - Fire trouble restore	FJ - Fire Trouble Restore
Network fault	1 333 - Expansion module failure	ET - Expansion Trouble
Module tamper	1 145 - Expansion module tamper	TA - Tamper Alarm
Module ROM_RAM_error	1 3A4 - Rom checksum bad	YF - Parameter Checksum Fail
Module TLM trouble	1 352 - Telco 2 fault	LT - Phone Line trouble
Module fail to communicate to central station	1 354 - Fail to communicate	YC - Communication Fails
Printer fault	1 336 - Local printer failure	VT - Printer Trouble
Module AC Failure	1 3A1 - AC loss	AT - AC Trouble
Module battery failure	1 3A9 - Battery test failure	YT - System Battery Trouble
Module Auxiliary supply trouble	1 3AA - System trouble	YP - Power Supply Trouble
Module Safety Mismatch	1 333 - Expansion Module Failure	ET - Expansion Trouble
Network fault restore	3 333 - Expansion module failure restore	ER - Expansion Restoral
Module tamper restore	3 145 - Expansion module tamper restore	TR - Tamper Restoral
Module ROM_RAM_error restore	3 3A4 - Rom checksum bad restore	YG - Parameter Changed
Module TLM restore	3 352 - Telco 2 fault restore	LR - Phone Line Restoral
Printer fault restore	3 336 - Local printer failure restore	VR - Printer Restore
Module AC restore	3 3A1 - AC loss restore	AR - AC Restoral
Module battery restore	3 3A9 - Battery test failure restore	YR - System Battery Restoral
Module Auxiliary supply restore	3 3AA - System trouble restore	YQ - Power Supply Restored
Fail to communicate with central station	1 354 - Fail to communicate	YC - Communication Fails
Module RF low battery	1 384 - RF transmitter low battery	XT - Transmitter Battery Trouble
Module RF battery restore	3 384 - RF transmitter battery restore	XR - Transmitter Battery Restoral
Module RF supervision trouble	1 381 - Loss of supervision - RF	US - Untype Zone Supervision
Module RF supervision restore	3 381 - Supervision restore - RF	UR - Untyped Zone Restoral
Cold Start	1 3A8 - System shutdown	RR - Power Up
Warm Start	1 3A5 - System reset	YW - Watchdog Reset
Test Report engaged	1 6A2 - Periodic test report	TX - Test Report
PC software communication finished	1 412 - Successful - download access	RS - Remote Program Success
Installer on site	1 627 - Program mode Entry	LB - Local Program
Installer programming finished	1 628 - Program mode Exit	LS - Local Program Success

APPENDIX 3: CONTACT ID REPORT CODE LIST

CID#	Reporting Code	Prog-Value	CID#	Reporting Code	Prog-Value	CID#	Reporting Code	Prog-Value
MEDICAL ALARMS - 100			SYSTEM TROUBLES - 300 & 310			REMOTE ACCESS - 410		
100	Medical Alarm	01	300	System Trouble	33	411	Callback Request Made	65
101	Personal Emergency	02	301	AC Loss	34	412	Success - Download Access	66
102	Fail to Report In	03	302	Low System Battery	35	413	Unsuccessful Access	67
FIRE ALARMS - 110			303	RAM Checksum Bad	36	414	System Shutdown	68
110	Fire Alarm	04	304	ROM Checksum Bad	37	415	Dialer Shutdown	69
111	Smoke	05	305	System Reset	38	ACCESS CONTROL - 420		
112	Combustion	06	306	Panel Program Changed	39	421	Access Denied	6A
113	Water Flow	07	307	Self-Test Failure	3A	422	Access Report By User	6B
114	Heat	08	308	System Shutdown	3B	SPECIAL TROUBLES - 450 & 460		
115	Pull Station	09	309	Battery Test Failure	3C	450	Exception Open/Close	6C
116	Duct	0A	310	Ground Fault	3D	451	Early Open/Close	6D
117	Flame	0B	SOUNDER/RELAY TROUBLES - 320			452	Late Open/Close	6E
118	Near Alarm	0C	320	Sounder Relay	3E	453	Failed to Open	6F
PANIC ALARMS - 120			321	Bell 1	3F	454	Failed to Close	70
120	Panic Alarm	0D	322	Bell 2	40	455	Auto-Arm Failed	71
121	Duress	0E	323	Alarm Relay	41	456	Partial Arm	72
122	Silent	0F	324	Trouble Relay	42	457	User Exit Error	73
123	Audible	10	325	Reversing Relay	43	458	User on Premises	74
BURGLAR ALARMS - 130			SYSTEM PERIPHERAL TROUBLES - 330 & 340			459	Recent Close	75
130	Burglary	11	330	System Peripheral	44	461	Wrong Code Entry	76
131	Perimeter	12	331	Polling Loop Open	45	462	Legal Code Entry	77
132	Interior	13	332	Polling Loop Short	46	463	Re-arm after Alarm	78
133	24-Hour	14	333	Expansion Module Failure	47	464	Auto-Arm Time Extended	79
134	Entry/Exit	15	334	Repeater Failure	48	465	Panic Alarm Reset	7A
135	Day/Night	16	335	Local Printer Paper Out	49	466	Service On/Off Premises	7B
136	Outdoor	17	336	Local Printer Failure	4A	SOUNDER RELAY DISABLES - 520		
137	Tamper	18	COMMUNICATION TROUBLES - 350 & 360			520	Sounder/Relay Disabled	7C
138	Near Alarm	19	350	Communication	4B	521	Bell 1 Disable	7D
139	Intrusion Verifier	1A	351	Telco Fault 1	4C	522	Bell 2 Disable	7E
GENERAL ALARMS - 140			352	Telco Fault 2	4D	523	Alarm Relay Disable	7F
140	General Alarm	1B	353	Long Range Radio	4E	524	Trouble Relay Disable	80
141	Polling Loop Open	1C	354	Fail to Communicate	4F	525	Reversing Relay Disable	81
142	Polling Loop Short	1D	355	Loss of Radio Supervision	50	COMMUNICATION DISABLES - 550 & 560		
143	Expansion Module Failure	1E	356	Loss of Central Polling	51	551	Dialer Disabled	82
144	Sensor Tamper	1F	PROTECTION LOOP TROUBLES - 370			552	Radio Transmitter Disabled	83
145	Expansion Module Tamper	20	370	Protection Loop	52	BYPASSES - 570		
24-HOUR NON-BURGLARY - 150 & 160			371	Protection Loop Open	53	570	Zone Bypass	84
150	24-Hour Non-Burglary	21	372	Protection Loop short	54	571	Fire Bypass	85
151	Gas Detected	22	373	Fire Trouble	55	572	24-Hour Zone Bypass	86
152	Refrigeration	23	SENSOR TROUBLES - 380			573	Burg. Bypass	87
153	Loss of Heat	24	380	Sensor Trouble	56	574	Group Bypass	88
154	Water Leakage	25	381	Loss of Supervision - RF	57	TEST/MISC. - 600		
155	Foil Break	26	382	Loss of Supervision - RPM	58	601	Manual Trigger Test	89
156	Day Trouble	27	383	Sensor Tamper	59	602	Periodic Test Report	8A
157	Low Bottled Gas Level	28	384	RF Transmitter Low Battery	5A	603	Periodic RF Transmission	8B
158	High Temperature	29	OPEN/CLOSE - 400			604	Fire Test	8C
159	Low Temperature	2A	400	Open/Close	5B	605	Status Report to Follow	8D
161	Loss of Air Flow	2B	401	Open/Close by User	5C	606	Listen-in to Follow	8E
FIRE SUPERVISORY - 200 & 210			402	Group Open/Close	5D	607	Walk Test Mode	8F
200	Fire Supervisory	2C	403	Automatic Open/Close	5E	621	Event Log Reset	90
201	Low Water Pressure	2D	404	Late to Open/Close	5F	622	Event Log 50% Full	91
202	Low CO2	2E	405	Deferred Open/Close	60	623	Event Log 90% Full	92
203	Gate Valve Sensor	2F	406	Cancel	61	624	Event Log Overflow	93
204	Low Water Level	30	407	Remote Arm/Disarm	62	625	Time/Date Reset	94
205	Pump Activated	31	408	Quick Arm	63	626	Time/Date Inaccurate	95
206	Pump Failure	32	409	Keyswitch Open/Close	64	627	Program Mode Entry	96
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						631	Exception Schedule Change	98

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WARNINGS

FFC Warnings

IMPORTANT INFORMATION

This equipment complies with Part 68 of the FCC rules subpart D and CS-03. Inside the cover of this equipment is a label that contains, among other information, the FCC registration number of this equipment.

NOTIFICATION TO TELEPHONE COMPANY

Upon request, customer shall notify telephone company of particular line to which the connection will be made and provide the FCC registration number and the ringer equivalence of the protective circuit.

FCC REGISTRATION NUMBER: 5A7CAN-22633 - AL - E
RINGER EQUIVALENCE NUMBER: 0.1B (U.S. & CANADA)
USOC JACK: RJ31X (USA), CA31A (CANADA)

TELEPHONE CONNECTION REQUIREMENTS

Except for telephone company provided ringers, all connections to the telephone network shall be made through standard plugs and telephone company provided jacks, or equivalent, in such a manner as to allow for easy, immediate disconnection of terminal equipment. Standard jacks shall be so arranged that, if plug connected thereto is withdrawn, no interference to operation of equipment at customer's premises which remains connected to telephone network shall occur by reason of such withdrawal.

INCIDENCE OF HARM

Should terminal equipment/protective circuitry cause harm to telephone network, telephone company shall, where practicable, notify customer that temporary disconnection of service may be required; however, where prior notice is not practicable, the telephone company may temporarily discontinue service if action is deemed reasonable in circumstances. In case of temporary discontinuance, telephone company shall promptly notify customer and will be given opportunity to correct the situation.

CHANGES IN TELEPHONE COMPANY EQUIPMENT OR FACILITIES

The telephone company may make changes in its communication facilities, equipment operations or procedures, where such actions are reasonably required and proper in its business. Should any such changes render customer's terminal equipment incompatible with the telephone company facilities, the customer shall be given adequate notice to effect the modifications to maintain uninterrupted service.

GENERAL

This equipment shall not be used on coin telephone lines. Connection to party line service is subject to state tariffs.

RINGER EQUIVALENCE NUMBER (REN)

The REN is useful to determine the quantity of devices that you may connect to your telephone line and still have all of those devices ring when your telephone number is called. In most, but not all areas, sum of the REN's of all devices connected to one line should not exceed five (5). To be certain of the number of devices that you may connect to your line, you may want to contact your local telephone company.

EQUIPMENT MAINTENANCE FACILITY

If you experience trouble with this telephone equipment, please contact facility indicated below for information on obtaining service or repairs. The telephone company may ask that you disconnect this equipment from network until problem is corrected or until you are sure that the equipment is not malfunctioning.

FCC PART 15, WARNINGS: INFORMATION TO USER

This equipment has been tested and found to comply with the limits for Class B digital devices, pursuant to Part 15 of FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to equipment intermittently, the user is encouraged to try to correct the interference by one or more of the following measures: (1) reorient or relocate the receiving antenna; (2) increase the separation between the equipment and receiver; (3) connect the equipment to an outlet on a circuit other than the one to which the receiver is connected, or (4) consult the dealer or an experienced radio/tv technician for assistance.

CAUTION:

Changes or modifications not expressly approved by PARADOX SECURITY SYSTEMS could void the user's authority to operate the equipment.

UL and ULC Warnings

UL AND C-UL INSTALLATION NOTES

The control panel (DGP-NE96), LCD Keypad (DGP2-641) and Access Control LCD Keypad (DGP2-641AC) are UL listed in accordance with standard UL1023 (Household Burglar -- Alarm Systems Units), standard UL985 (Household Fire Warning Units), standard UL1635 (Digital Alarm Communicator System Units), standard UL609 (Local Burglar Alarm Units and Systems), standard UL365 (Police Station Connected Burglar Alarm Units and Systems) and standards UL1610 (Central Station Burglar Alarm Units). This equipment has the capability of being programmed with features and connected to modules not verified for use in UL installations. To stay within these standards, the installer should use the following guidelines when configuring the system:

- All components of the system should be UL listed for the intended application.
- If the system will be used for "Fire" detection, the installer should refer to NFPA Standards #72, Chapter 2. In addition, once installation is complete, the local fire authority must be notified of the installation.
- This equipment must be verified by a qualified technician once every three years.
- All keypads must use a tamper switch.
- Maximum allowed entry delay is 45 seconds.
- Maximum allowed exit delay is 60 seconds.
- Minimum 4 minutes for bell cut-off time.
- The following features do not comply with UL requirements: Bypass Recall, Shabbat, Auto Trouble Shutdown, and "No AC Fail" display.
- Do not connect the primary indicating device to a relay. The installer must use the bell output.
- All modules installed on the system must be UL listed in accordance with the standards listed above.

For further details concerning the above information, refer to the UL standards listed and/or the Underwriters Laboratories Inc. Standard for Safety's *Installation and Classification of Burglar and Holdup Alarm Systems*.

Recommended:

- EOL resistor part #2011002000
- Transformers: (A) ATC Frost #FTC3716 16.5Vac, 37VA; (B) ATC Frost #FPS4016 16.5Vac, 40VA; (C) Basler Electronics model #BE156240CAA 16.5Vac (50/60Hz), 20VA or 40VA.
- For CSA listed systems, use Basler Electronics' transformer model #BE116240AAA.
- 12Vdc 4Ah rechargeable acid/lead or gel cell backup battery (YUASA model #NP7-12 recommended) for residential use. 7Ah battery to comply with fire requirements.

All outputs are Class 2 or power-limited, except for the battery terminal. The Class 2 and power-limited fire alarm circuits shall be installed using CL3, CL3R, CL3P, or substitute cable permitted by the National Electrical Code, ANSI/NFPA 70.

CTR-21 Warnings

The equipment has been approved in accordance with Council Decision 98/482/EC for pan-European single terminal connection to the public switched telephone network (PSTN). However, due to differences between the individual PSTNs provided in different countries, the approval does not, of itself, give an unconditional assurance of successful operation on every PSTN network termination point. In the event of problems, you should contact your equipment supplier in the first instance.

WARRANTY

The Seller warrants its products to be free from defects in materials and workmanship under normal use for a period of one year. Except as specifically stated herein, all express or implied warranties whatsoever, statutory or otherwise, including without limitation, any implied warranty of merchantability and fitness for a particular purpose, are expressly excluded. Because Seller does not install or connect the products and because the products may be used in conjunction with products not manufactured by Seller, Seller cannot guarantee the performance of the security system. Seller obligation and liability under this warranty is expressly limited to repairing or replacing, at Seller's option, any product not meeting the specifications. In no event shall the Seller be liable to the buyer or any other person for any loss or damages whether direct or indirect or consequential or incidental, including without limitation, any damages for lost profits, stolen goods, or claims by any other party, caused by defective goods or otherwise arising from the improper, incorrect or otherwise faulty installation or use of the merchandise sold.

ATTACHMENT LIMITATION NOTICE

The Industry Canada label identifies certified equipment. This certification means that the equipment meets certain telecommunications network protective, operational and safety requirements. The Department does not guarantee the equipment will operate to the user's satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be made by an authorized Canadian maintenance facility designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

CAUTION: Users should not attempt to make such connections themselves, but should contact the appropriate electrical inspection authority, or electrician, as appropriate.

The Load Number (LN) assigned to each terminal device denotes the percentage of the total load to be connected to a telephone loop which is used by the device to prevent overloading. The termination on a loop may consist of any combination of devices subject only to the requirement that the total of the Load Numbers of all of the devices does not exceed 100.

Industry Canada certification is only applicable to installation of devices which include transformers approved by the Canadian Standards Association (CSA).

P ▲ R ▲ D O X[®]
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