ROKONET
RISCO GROUP

ProSYS / WaveSYS*
QUICK START
INSTRUCTIONS GUIDE

(For full comprehensive instructions refer
to the ProSYS Installer Manual 5IN128IM)

www.rokonet.com

* WaveSYS Installation & Programming Instructions in this document
 are equivalent to ProSYS 40.

5IN128IMQ

CE

Introduction
ProSYS is a modular integrated system that combines access control, security protection, and home automation, with the advantage of controlling the whole system through one interface.
ProSYS is available in three models that use the same accessories, but have different maximum capabilities (ProSYS 128, ProSYS 40, ProSYS 16) . Through its 4-wire BUS, it can support a variety of optional modules, including multiple Keypads, Zone Expanders, a Wireless Interface, supplemental Power Supplies, a Voice module, capabilities for Access Control, an X-10 Interface, Event Log, and Utility Outputs. All these devices communicate with the system by sending commands and data over the BUS, which originates at the Main Panel.

We recommend reading and fully understanding the ProSYS Installation manual and User's manual before any installation of the system is carried out. The Quick Start Instructions guide is intended for those who have experience in installing Rokonet security panels. For additional information refer to the ProSYS Installer Manual (p/n 5IN128IM).

STEP 1: Mounting the Main Panel
Consideration in locating the fixing of the main panel should be given to:
* Dry place near an AC power supply (switched off).
* With a good earth connection.
* With access to the customer's phone lines.
* Access for the routing of cables for the system from detection devices.
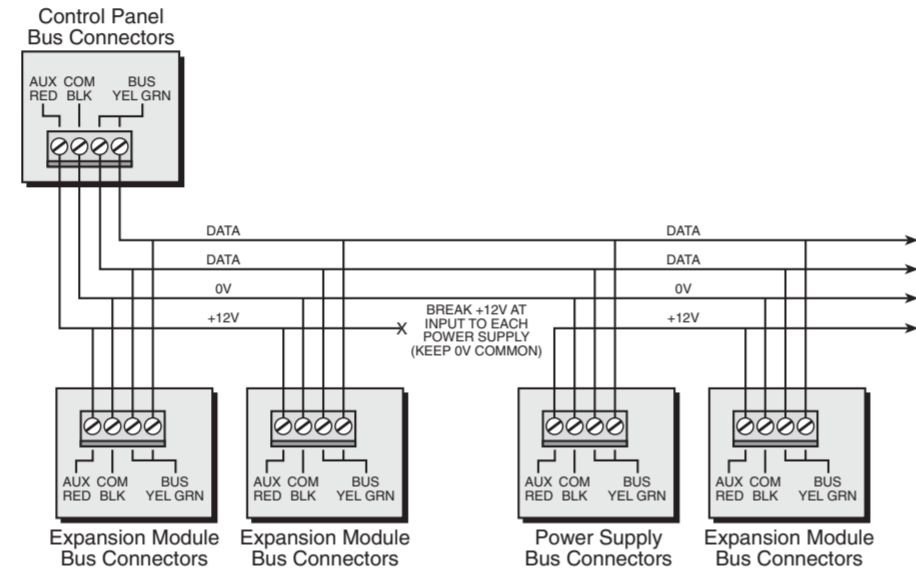
STEP 2: Wiring the Main Panel

1. BUS Connection

A: Wiring External Modules
The set of four terminals on the left of the Main Panel represents the Expansion BUS. These support the connection of keypads and expansion modules. The connections are terminal-to-terminal with color-coded wires, as follows:

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

The parallel wiring system supports parallel connections from any point along the wiring. The maximum wire run permitted is 300 meters (1000 feet) for all legs of the BUS. To prevent a possible drop in voltage due to multiple keypads and long wire runs, use a quality 4-conductor cable with an appropriate gauge size.

Control Panel
Bus Connectors

DATA
DATA
0V
+12V

BREAK +12V AT
INPUT TO EACH
POWER SUPPLY
(KEEP 0V COMMON)

Expansion Module Bus Connectors
Expansion Module Bus Connectors
Power Supply Bus Connectors
Expansion Module Bus Connectors

When connecting the Power Supply Module do **NOT** make any connection to the **AUX (RED)** terminal from the Main Panel. It is used for the outgoing BUS to supply voltage to other modules. The module supplies power to all modules and/or keypads located AFTER the point that it is connected to the BUS.

Notes:
In the ProSYS 16 and the ProSYS 40, there is only one BUS, which can be connected to the BUS 1 terminal block or to one of the two BUS 1 plugs (J1 and J5).
In the ProSYS 128, there is also a BUS 2, which is separate from BUS 1. You can connect to the BUS 2 terminal block or to the BUS 2 plug (J8). In addition, if one of the BUSes is shorted or there is any kind of problem that interrupts the BUS data, the other one will continue to operate normally.
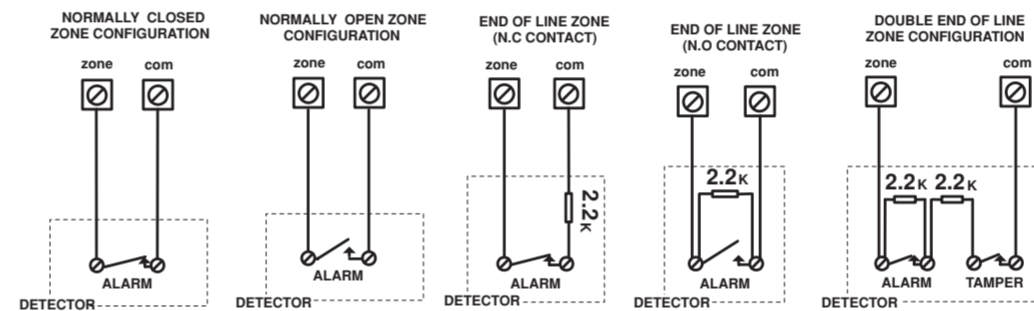
B: Defining Modules ID number
Each accessory has its ID category number, which is defined by dipswitches. ID numbers are defined per category and the first module in each category is defined as ID=1. Before setting power on, define each module's ID number by setting the dipswitches as follows:

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

Dipswitches

Category	Modules ID Range		
	ProSYS 16	ProSYS 40	ProSYS 128
Zone Expanders (include wireless)	1	1-4	1-8
Keypads	1-8	1-12	1-16
Output Modules	1-2	1-4	1-8
Supervised Power Supply	1-8	1-8	1-8
Access Control Modules	1-2	1-4	1-8
Memory Expansion	-	ID=1 (512 events)	ID=1 (512 or 999)
Digital Key Readers	1-16	1-16	1-16
Voice Module	1	1	1
Wireless Key Buttons	1	1-4	1-4

2. Zone Inputs Connection
To connect a hardwired zone use a 4-conductor cable wiring.
Connect each zone to the appropriate Zone (Z) terminal and its related COM terminal. Each pair of zones shares a COM terminal. It is recommended that you use an End-of-Line Resistor at the far end of each hardwired zone to prevent short-circuits (16 resistors are supplied). For a zone with a tamper switch, you can use a Double End-of-Line Resistor to save additional Main Panel connections
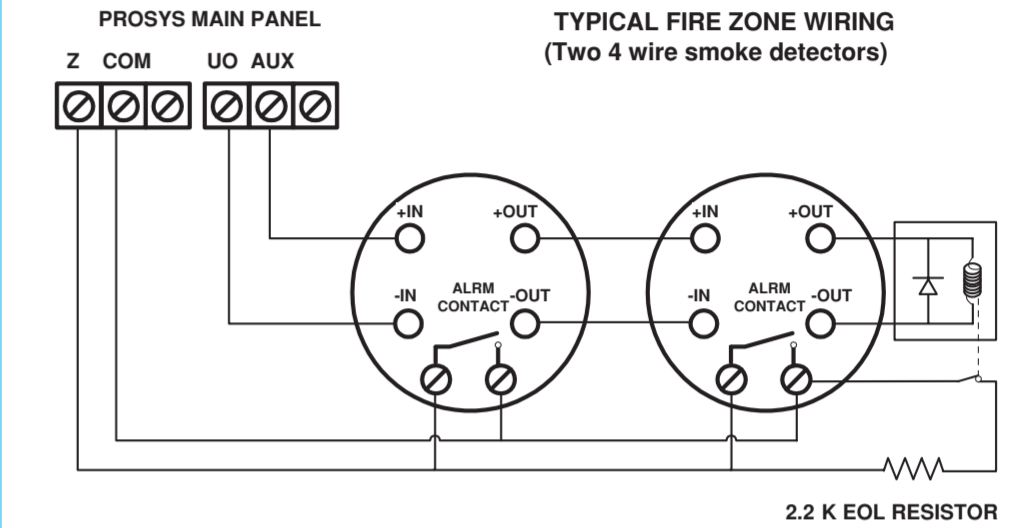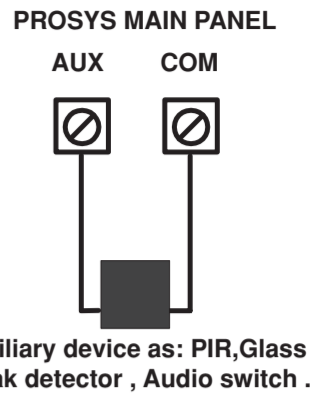
Zone Terminations

NORMALLY CLOSED ZONE CONFIGURATION
NORMALLY OPEN ZONE CONFIGURATION
END OF LINE ZONE (N.C CONTACT)
END OF LINE ZONE (N.O CONTACT)
DOUBLE END OF LINE ZONE CONFIGURATION

zone   com

DETECTOR   ALARM

3. Wiring Auxiliary Devices
The main panel has 2 aux terminals. Use the **Auxiliary Power AUX (+) COM (-)** terminals to power PIRs, glass-break detectors (4-wire types), smoke detectors, audio switches, photoelectric systems and/or any device that requires a 12V DC power supply. The total power from the **AUX** terminals should not exceed 600mA.
If the auxiliary outputs are overloaded (exceed 600mA) and are shut down, you must disconnect all loads from the outputs for a period of at least 10 seconds before you reconnect any load to the auxiliary outputs.

PROSYS MAIN PANEL
AUX   COM

Auxiliary device as: PIR,Glass
break detector , Audio switch ...

PROSYS MAIN PANEL
Z   COM   UO   AUX

TYPICAL FIRE ZONE WIRING
(Two 4 wire smoke detectors)

2.2 K EOL RESISTOR

4. Bell Sounder Wiring
The **Bell/LS** terminal determines the output for the bell or external sounder. When connecting the internal sounding device pay attention to the polarity.
To avoid Bell Loop Trouble, if **NO** connection is made to an internal sounder, use a 2.2KΩ resistor in its place.
It is important to position the **BELL/LS Jumper (J3)** correctly. The position varies depending on the type of internal sounder. A maximum of 900 mA may be drawn from this terminal.

PROSYS MAIN PANEL
BELL/LS
+   -

BELL

LOUDSPEAKER
(13.8v, 900 mA MAX)
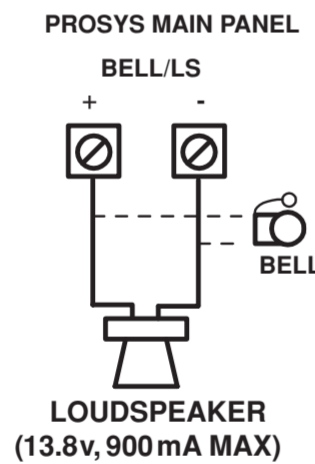
5. Bell Tamper Wiring
Connect the bell tamper to the **BELL TMP** and **COM** terminals on the Main Panel, as illustrated.

BELL TMP   COM

2.2 K EOL RESISTOR

BELL TAMPER
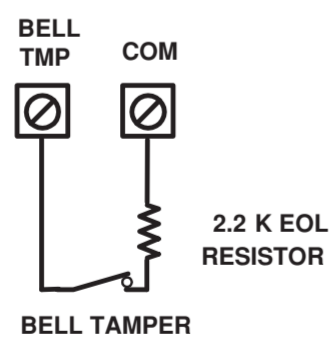
6. Box Tamper Wiring
Connect the box tamper to the **BOX TMP** and **COM** terminals on the Main Panel, as illustrated.

Note:
The Box Tamper input provides double protection, wall and box.

BOX TMP   COM

BOX TAMPER
(N.C)
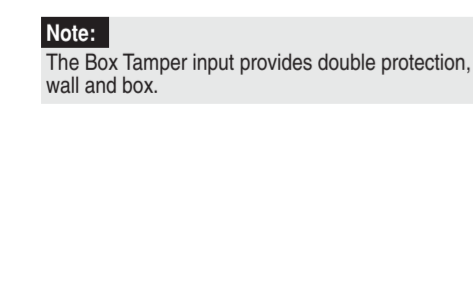
7. Utility Output Wiring
UO1: Relay output (3 Amps). Usually used for an external siren connection. Use the J10 jumper located on the main board to determine the UO1 (behaviour) as follows:

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

ProSYS Main Panel
POS
J10
COM   N.C   C   N.O
UO1

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

ProSYS Main Panel
NEG
J10
AUX   N.C   C   N.O
UO1

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

ProSYS Main Panel
(1 pin only)
J10
N.C   C   N.O
UO1

External Power

UO2-UO6: Transistor outputs (UO2 — 500 mA, UO3-UO6 70 mA). Connect the positive connection of the device to **AUX (+)** and the negative (-) connection to the UO's terminals.

8. Telephone Line Connection
Connect the incoming telephone line to the Main Panel's **LINE** terminals.
Connect any telephone on the premises to the **SET** terminals.

PROSYS MAIN PANEL
SET   LINE
T   R   TIP   RING

TO TELEPHONE LINE
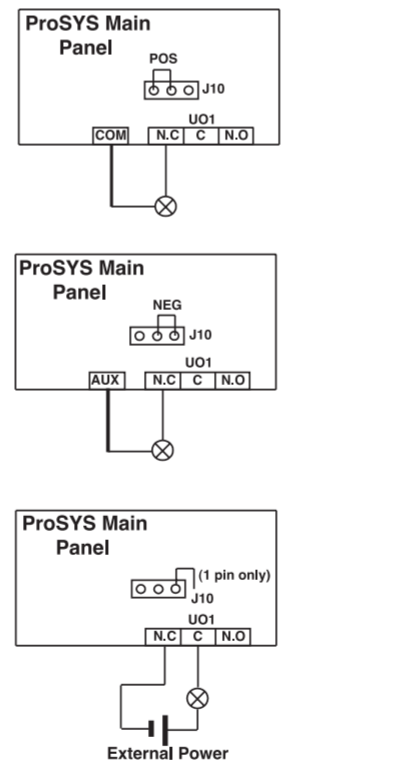
9. Setting Jumpers
Use the following table to position the jumpers located on the ProSYS main board

Jumper	Jumper Description	Jumper Operation
J2	Default jumper	For regular operation position the default jumper over one of the J2 connector pins for safekeeping. To default the system position the jumper over the 2 pins
J3	Bell/Loudspeaker	Set this jumper according to the type of siren connected to the system (bell or loudspeaker)
J4	SIG IN	Connect to the voice module p/n RP200VC
J6	Voice Connector	This connector transmits signals from the Advanced Digital Voice module to the telephone line during remote communication, and is essential for normal operation of the Digital Voice module.

J1, J5, J8 are used as quick BUS connectors. Use the 4 pin BUS plugs for easy connection of the BUS Adapter Cable (RP296EBA) or the Memory Transfer Card.

10. Ground Connection
Connect the metal box and the door of the metal box to main earth (ground).
Note:
Connecting to ground must be performed according to the local National Electrical Code.

11.Main Power Connection
Connect the 230V AC to the mains fuse input terminal block (N,L). Fasten the AC cord to the metal box using adjustable clamps.
Note:
Be sure to connect the live wire of the AC power through the AC fuse. The size of the conductors must not be less than 0.75mm² (18AWG).

PROSYS MAIN PANEL
A   C
16.5 VAC
40 VA

FUSE
315 mA
L
N
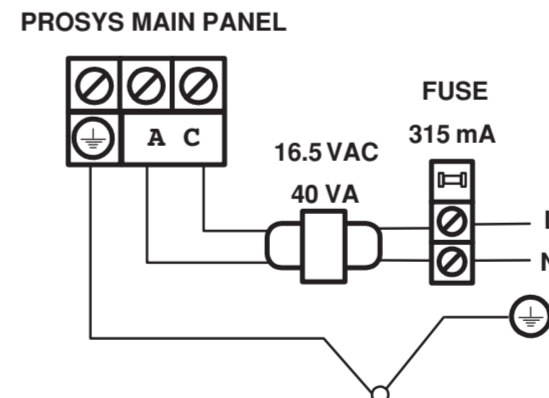
STEP 3: Installer Programming
The ProSYS can be programmed from local or remote Upload/Download software or from the LCD Keypad used as an interface tool. The following keys are used in the programming procedure. For additional information refer to the Installer manual.

Key	Programming Mode Function
*	Use this key to exit the current programming selection and move up to the next higher level in the programming hierarchy catalog.
Status / Bypass	Press either one of these keys to move back and forth through the programming level functions. These keys also change the position of the flashing cursor. When editing a selection, the cursor moves to the left or right respectively.
Stay	Use this key to toggle forward through the programming choices within a selection.
Arm	Use this key to toggle backward through the programming choices within a selection.
# / Disarm	Use this key to enter selected information into the system or to accept the current selection and access the lower level of options in the programming hierarchy.

Initial Setting
1. When defaulting the panel (position J2 on both pins and then power on the system) you enter the installer Programming menu and the Auto Install feature (Automatic Module recognition). The first display will be:

```
ROKONET
Please Wait...
```

2. After a short delay the following display appears:

```
To Install
Press *
```

3. Press [*]. The keypad prompts you for the Installer code.
4. Enter the default Installer Code followed by (Disarm) depending on the ProSYS Model:
* ProSYS 128: [0][1][2][8]
* ProSYS 40: [0][1][4][0]
* ProSYS 16: [0][1][1][6]

5. The system enters the automatic accessories recognition process. Press (Disarm) to acknowledge each module.
6. To exit Installer programming press "0" from the Installer's main menu.
7. Position the J2 default jumper on one pin to save data.

To access the Installer Programming Menu from the regular operation mode: (J2 is on one pin)
1. From the regular (user) operation mode press: [*][7][1]
2. The keypad prompts you for the Installer code.
3. Enter the Installer Code followed by (Disarm) for accessing the Installer menu.

Reset to default modes
To restore the Main Panel to the manufacturer's defaults:
1. Disconnect all power from the Main Panel.
2. Position the J2 default jumper on both of the J2 pins.
3. Reconnect the power to the main and backup battery to the Main Panel. The keypad sounds a long beep and all of the LEDs flash once. After 20 seconds the following message is displayed: "To Install Press *"
4. On the Main Panel, reposition the J2 default jumper on one of the J2 pins (where it resides for safekeeping).
5. Remember that the Installer Code has been restored to the manufacturer's default setting.

Note:
To enable the restore of the manufacturer's default, the system bit "Default Enable/Disable" (defined in quick key [1][7] in the main Installer menu) must be defined as Enable.

INSTALLER PROGRAMMING MENUS

[1] SYSTEM

Quick Key	Parameter	Default	Range
[1][1]	**System: Time Define**		
[1][1][1]	Exit Entry Delay 1		
[1][1][1][1]	Entry Delay 1	30	0-255 sec
[1][1][1][2]	Exit Delay 1	45	0-255 sec
[1][1][2]	Exit Entry Delay 2		
[1][1][2][1]	Entry Delay 2	45	0-255 sec
[1][1][2][2]	Exit Delay 2	60	0-255 sec
[1][1][3]	Bell Time Out	04	01-90 min
[1][1][4]	Bell Delay	00	00-90 min
[1][1][5]	Switched Auxiliary Break	10	01-90 sec
[1][1][6]	Wireless Module Times		
[1][1][6][1]	Jamming Time	None	None, 10,20,30 sec
[1][1][6][2]	Supervisory (S.V) Time	0	0-7 hours
[1][1][7]	Zone Test Times		
[1][1][7][1]	Start Test	HR:00;MIN:00	00-24 Hours, 00-59 Min
[1][1][7][2]	Zone Test Period	00	00-24 Hours
[1][1][8]	AC Off Delay	30	01-99 Min
[1][1][9]	More Times		
[1][1][9][1]	Phone Line Cut Delay	04	01-20 Min
[1][1][9][2]	Guard Delay	30	01-99 Min
[1][2]	**System: System Control**		

[1][2] [01.. 34] System: System Control

Parameter	Default	Parameter	Default	Parameter	Default
01) Quick Arm	YES	13) Alarm Zone Expander Cut	NO	25) Engineer Tamper	NO
02) Quick UO	YES	14) Fire Temporal Alarm	NO	26) Blank Display	NO
03) Allow Bypass	YES	15) Grand Master Code	NO	27) 24 Hour Bypass	NO
04) Quick Bypass	NO	16) Audible Jamming	NO	28) IMQ Install	NO
05) False Code Trouble	NO	17) Technical Tamper	NO	29) Grand Master Authority/Partition	YES
06) Bell Squawk	YES	18) Technical Reset	NO	30) Double Code	NO
07) Bell 30/10	NO	19) Abort Alarm	NO	31) Disarm Stop Follow Me	YES
08) Alarm Phone Cut	NO	20) Summer/Winter Clock	NO	32) Global Follower	NO
09) 3 Minutes Bypass	YES	21) Forced Keyswitch Arming	YES	33) Area	NO
10) Double Verification Fire Alarm	NO	22) Pager	NO	34) Disable Keypad when Auto Disarm exist	NO
11) Audible Panic	NO	23) Arm Pre Warning	YES		
12) Buzzer→Bell	NO	24) Low Battery Arm	YES		

Quick Key	Parameter	Default	Range
[1][3]	**System: Set Clock**		
[1][3][1]	System Date	JAN 01 2000 (SAT)	DD MM YYYY (DAY)
[1][3][2]	System Time	00:00	HH:MM
[1][4]	**System: Windowing**		
[1][4][1]	Window Start	HR:00;MIN:00	00-24 Hours, 00-59 Min
[1][4][2]	Window Stop	HR:00;MIN:00	00-24 Hours, 00-59 Min
[1][4][3]	Window Days	All	SUN(Y/N)-SAT(Y/N)
[1][5]	**System: Labels**		
[1][5][0]	Global	Rokonet	12 Characters
[1][5] [1..8]	Partition 1 — Partition 8	12 Characters	
[1][6]	**System: Tamper Sound**	Bell/Arm Buzzer/Disarm	1) Silent 2) Bell Only
			3) Buzzer Only 4) Bell +Buzzer
			5) Bell/Arm 6) Buzzer/Disarm
[1][7]	**System: Default Enable**	Yes	
[1][8]	**System: Service Information**		
[1][8][1]	Service Name	ProSYS Security	16 Characters
[1][8][2]	Service Phone	System	16 Characters
[1][9]	**System: System Version**		

[2] ZONES

Quick Key	Parameter	Options
[2][1]	**Zones: One By One**	
[2][2]	**Zones: Partitions**	
[2][3]	**Zones: Zone Type**	
	[2][3][ZZ] + [DISARM] +[00-22]	00) Not Used 09) Interior + Entry Follower 18) Exit Termination
		01) Exit Entry 1 10) Interior + Instant 19) Latched Keyswitch
		02) Exit Entry 2 11) Utility Output Trigger 20) Entry Follower + Stay
		03) Exit (Open)/Entry 12) Day Zone 21) Keyswitch Delay
		04) Entry Follower 13) 24 Hours 22) Latched Keyswitch Delay
		05) Instant 14) Fire
		06) Interior + Exit Entry 1 15) Panic
		07) Interior + Exit Entry 2 16) Special Emergency
		08) Interior + Exit (Open)/Entry 17) Pulsed Keyswitch
[2][4]	**Zones: Zone Sound**	1) Silent 4) Bell + Buzzer
	[2][4][ZZ] + [DISARM] +[1-6]	2) Bell Only 5) Door Chime
		3) Buzzer Only 6) Bell/Arm Buzzer/Disarm
[2][5]	**Zones: Zone Termination**	1) Normally Close 3) Double End Of Line
	[2][5][ZZ] + [DISARM] +[1-4]	2) End Of Line 4) Normally Open
[2][6]	**Zones: Loop Response**	1) Normal (400 ms) 05) 0.5 Hour 09) 2.5 Hours
	[2][6][ZZ] + [DISARM] +[1-12]	2) Slow(1 sec) 06) 1 Hour 10) 3 Hours
		3) Fast (10 ms) 07) 1.5 Hours 11) 3.5 Hours
		4) Very Fast (1 ms) 08) 2 Hours 12) 4 Hours

Note:
1. The loop response 1 ms (option 4) is usually used for shutters or other devices that require very quick responses. This loop response time can be defined only for zones located on the zone expander RP128EZ8F00A.

2. The loop response times defined in locations 5 to 12 can be assigned only to zones 1 to 8 on the Main Panel or to zones located on the zone expander RP128EZ8F00A.

Quick Key	Parameter	Options
[2][7]	**Zones: Cross Zones**	1) None
		2) Ordered
		3) Not Ordered
[2][8]	**Zones: Zone Labels**	
[2][9]	**Zones: Maintenance**	
[2][9][1]	Copy to a Zone	
[2][9][2]	Delete a Zone	
[2][9][3]	Add/Copy Partition	
[2][9][4]	Delete a Partition	
[2][9][5]	Wireless Module Calibration	
[2][9][6]	Wireless Zone Allocation	
[2][9][7]	Wireless Communication Test	
[2][9][8]	Zone Self Test	
[2][9][9]	Soak Test	
[2][0]	**Zones: Miscellaneous**	
[2][0][1]	Forced Arming	
[2][0][2]	Pulsed Count	

[3] UTILITY OUTPUT

Quick Key	Parameter	Options
[3][0]	**Utility Output: Follow Nothing**	
[3][1]	**Utility Output: Follow System Event**	01) Bell Follow 08) Sensors Test
		02) No Telephone Line 09) Voice Module
		03) Communication Failure 10) Battery Test
		04) Trouble Follow 11) Bell Burglary
		05) Ground Pulse 12) Scheduler
		06) Low Battery 13) Digital Reader Communication
		07) Ac Loss Follow 14) Switched Auxiliary
[3][2]	**Utility Output: Follow Partition Event**	01) Ready Follow 08) Duress Follow 15) Stay Follow
		02) Alarm follow 09) Buzzer Follow 16) Tamper Follow
		03) Arm Follow 10) Chime Follow 17) Disarm Follow
		04) Burglary Follow 11) Exit/Entry Follow 18) Bell Follow
		05) Fire Follow 12) Fire Trouble 19) Bell Stay Off
		06) Panic Follow 13) Day zone Trouble 20) Zone Bypass
		07) Special Emergency Follow 14) General Trouble
[3][3]	**Utility Output: Follow Zone**	01) Zone Follow 03) Arm Follow
		02) Alarm Follow 04) Disarm Follow
		Note: Each utility output can be activated by a group of up to five zones.	
[3][4]	**Utility Output: Follow Code**	

[4] CODE

Quick Key	Parameter	Options
[4][1]	**Code Maintenance: Authority Level**	Grand Master Arm Only User Unbypass
		Manager Cleaner Guard
		User Utility Output Activation
[4][2]	**Code Maintenance: Partition**	
[4][3]	**Code Maintenance: Grand Master**	
[4][4]	**Code Maintenance: Installer**	
[4][5]	**Code Maintenance: Sub Installer**	
[4][6]	**Code Maintenance: Code Length**	1) 4 Digits 2) 6 Digits

[5] DIALER

Quick Key	Parameter	Default	Range
[5][1]	**Dialer: Telephone Numbers**		32 characters
[5][1][1]	MS Phone 1		
[5][1][2]	MS Phone 2		
[5][1][3]	MS Phone 3		
[5][1][4]	Remote Upload/Download Phone		
[5][2]	**Dialer: Customer Account Number**		
[5][3]	**Dialer: Communication Format**		
[5][3][1]	Format for MS Phone 1		
[5][3][2]	Format for MS Phone 2		
[5][3][3]	Format for MS Phone 3		

Quick Key	Parameter		Default	Parameter		Default
[5][4]	**Dialer: Access and ID**					
[5][4][1]	Access Code		5678			
[5][4][2]	ID Code		0001			
[5][4][3]	MS Lock		000000			
[5][5]	**Dialer: Controls**					
[5][5] [01..14]	Parameter		Default	Parameter		Default
	01) MS Enable		YES	08) Call Back Upload/Download		YES
	02) Follow Me Enable		YES	09) Auto Batch		NO
	03) Upload/Download Enable		YES	10) Answering Machine Override		YES
	04) Call Delay		NO	11) UL Installation		NO
	05) Dial Tone Wait		YES	12) Show Kiss Off		NO
	06) Call Save		No	13) Show Handshake		NO
	07) User Initiated Call		YES	14) Audible Kissoff		NO

Quick Key	Parameter	Default	Range
[5][6]	**Dialer: Parameters**		
[5][6][1]	Monitoring Station Retries	08	01-15
[5][6][2]	Follow Me Retries	03	01-15
[5][6][3]	Ring to Upload/Download	12	01-15
[5][6][4]	Dial Tone Time	6	1) 6 seconds 2) 9 seconds
[5][6][5]	Redial Wait	30	1) 30 sec 2) 60 sec
[5][6][6]	Dialing Method	DTMF	1) DTMF 2) Pulse @ 20 BPS 3) Pulse @ 10 BPS
[5][6][7]	Pulse Duty Cycle	61/39	1) 67/33 2) 61/39
[5][6][8]	Swinger Shutdown Limit	00	00-15
[5][7]	**Dialer: Report Split**		
[5][7][1]	Monitoring Station Arm/Disarm	1st Backup 2nd	1) Do not call 2) Call 1st 3) Call 2nd 4) Call 3rd 5) Call All 6) 1st Backup 2nd
[5][7][2]	Monitoring Station Urgent	1st Backup 2nd	1) Do not call 2) Call 1st 3) Call 2nd 4) Call 3rd 5) Call All 6) 1st Backup 2nd
[5][7][3]	Monitoring Station Non Urgent	1st Backup 2nd	1) Do not call 2) Call 1st 3) Call 2nd 4) Call 3rd 5) Call All 6) 1st Backup 2nd
[5][7][4]	Follow Me		
[5][7][4] [1..8][1]	Phone Partition		
[5][7][4] [1..8][2]	Phone Event		

Event	Default	Event	Default
01) Intruder	YES	10) Disarm	NO
02) Fire	YES	11) Bypass	NO
03) Emergency	YES	12) Wireless lost	NO
04) Panic	YES	13) Wireless Low Battery	NO
05) Tamper	NO	14) Bell Trouble	NO
06) Remote Programming	NO	15) False Code	NO
07) AC Off	NO	16) Low Battery	NO
08) Duress	YES	17) Wireless Jamming	NO
09) Arm	NO	18) BUS Trouble	NO

[5][7][4] 1-8][1] Phone Restore Events

Event	Default	Event	Default
01) Intruder	YES	06) Bell Trouble	NO
02) Tamper	NO	07) Low Battery	NO
03) AC Off	NO	08) Wireless Jamming	NO
04) Wireless lost	NO	09) BUS Trouble	NO
05) Wireless Low Battery	NO		

Quick Key	Parameter	Default	Options
[5][8]	**Dialer: Alarm Restore**		
[5][8][1..3]	Alarm Restore	On Bell Time out	1) On Bell Time put 2) Follow Zone 3) At Disarm
[5][9]	**Dialer: Periodic test**		
[5][9][1]	Monitoring Station Test		
[5][9][2]	Upload Download Test		
[5][0]	**Dialer: Auto Codes**		
[5][0][1]	Contact ID		
[5][0][2]	SIA		
[5][0][3]	Delete All		

[6] REPORT CODES

Quick Key	Parameter	Options
[6][1]	**Report Codes: Emergency Key**	
[6][1][1][1..4]	Emergency Key Alarm	1) Auxiliary Emergency 3) Fire
		2) Panic 4) Duress
[6][1][2][1..4]	Emergency Key Alarm Restore	1) Auxiliary Emergency 3) Fire
		2) Panic 4) Duress
[6][2]	**Report Codes: Zones**	
[6][2][1..9]		1) Alarm 5) Bypass
		2) Alarm Restore 6) Zone Tamper
		3) Day zone Trouble/ Wireless Zone Supervision 7) Zone Tamper Restore
		4) Day zone Trouble/ Wireless Zone Supervision Restore 8) Low Battery
			9) Low Battery Restore
[6][3][1..7]	**Report Codes: Accessory Tamper**	1) Keypad 5) Wireless Button Accessory
		2) Utility Output 6) Wireless Zone Module
		3) Power Supply 7) Advanced Voice Module
		4) Event Logger
[6][4]	**Report Codes: Main Trouble**	
[6][4][1][1..0]	Main Trouble	1) Low Battery 6) Clock Not Set
		2) Bell 7) BUS Fail
		3) Phone 8) False Code
		4) AC Loss 9) Bell Tamper
		5) Aux Fail 0) Box Tamper
[6][4][2][1..0]	Main Trouble Restore	1) Low Battery 6) Clock Not Set
		2) Bell 7) BUS Fail
		3) Phone 8) False Code
		4) AC Loss 9) Bell Tamper
		5) Aux Fail 0) Box Tamper
[6][5]	**Report Codes: Power Supply Module Trouble**	
[6][5][1][1..4]	Trouble Condition	1) Low Battery 3) AC Loss
		2) Bell 4) AUX Fail
[6][5][2][1..4]	Trouble Condition Restore	1) Low Battery 3) AC Loss
		2) Bell 4) AUX Fail
[6][6]	**Report Codes: Arm Codes**	
[6][6][1..7]	Arm Codes	1) User Arm 5) Quick Arm
		2) Keyswitch Arm 6) Force Arm
		3) Auto Armed 7) Wireless Button Arm
		4) Remote Arm

Quick Key	Parameter	Options
[6][7]	**Report Codes: Disarm Codes**	
[6][7][1..5]	Disarm Codes	1) User Disarm 4) Remote Disarm
		2) Keyswitch Disarm 5) Wireless Button Disarm
		3) Auto Disarm
[6][8]	**Report Codes: Miscellaneous**	
[6][8][1..0]	Miscellaneous	1) Enter Programming 6) System Reset
		2) Exit Programming 7) Abort Alarm
		3) Periodic MS Test 8) Self Test O.K
		4) Periodic UD Test 9) Self Test Failure
		5) Call Back Request 10) Cancel Report
[6][9]	**Report Codes: Special communication**	
[6][0]	**Report Codes: Accessory Code**	
[6][0][1..4]	Accessory Code	1) Wireless Zone Expander 3) Wireless Button Battery
		2) Wireless Button Module 4) Printer Module

[7] ACCESSORIES

Quick Key	Parameter	Options
[7][1]	**Accessories: Add/Delete Module**	
[7][1][1..9]	Add/Delete Module	1) Keypad 6) Wireless Button
		2) Zone Expander 7) Printer Module
		3) Utility Output 8) Access Control
		4) Power Supply 91) Digital Key Reader
		5) Event Log 92) Advanced Digital Voice Module
[7][2]	**Accessories: Verify Module**	
[7][3]	**Accessories: Bus Test**	
[7][4]	**Accessories: Bus Scan**	
[7][5]	**Accessories: Auto Settings**	

[8] MISCELLANEOUS

[8][1]	**Miscellaneous:** Miscellaneous: Wireless Button Parameters	
[8][2]	**Miscellaneous:** Miscellaneous: Wireless Button Allocation	

[9] ACCESS CONTROL

Quick Key	Parameter	Default	Range
[9][1]	**Door Define**		
[9][1][1]	Partitions		
[9][1][2]	Door Time Setting		
[9][1][2][1]	Open Delay	4	1-99 sec
[9][1][2][2]	Door Force Delay	NO	YES/NO
[9][1][2][3]	Door Alarm Delay	10	1-99 sec
[9][1][3]	Door Fire Settings	Open	Open/Close
[9][1][4]	Door Input Settings		
[9][1][4][1]	Door contact	N.O	N.O/N.C
[9][1][4][2]	Request to Exit Button	N.O	N.O/N.C
[9][1][5]	Door Label		
[9][2]	Card Code Position	00	00-37
[9][3]	Special Code		
[9][3][1]	Arm Code	99	00-99
	Quick Arm Code	98	00-99

[0] EXIT PROGRAMMING

Wiring information:
Use the following tables for selecting the correct wire thickness to minimize the power loss and ensure reliable system operation. Take into account the installations current requirements and the wiring distances involved

Wire Gauge		Max Combined Length (BUS) from Panel to Expansion module	
24 AWG	(0.5 mm / 0.02inch)	150 meters	492 feet
22 AWG	(0.64mm / 0.025inch)	200 meters	656 feet
20 AWG	(0.8 mm / 0.031inch)	333 meters	1092 feet
19 AWG	(0.9 mm / 0.035inch)	400 meters	1312 feet

Desired Wire Gauge for Detectors Wiring Distances

Max Current (mA)	18 AWG (1.00mm / 0.04inch)		19 AWG (0.9 mm / 0.035inch)		20 AWG (0.8 mm / 0.031inch)		22 AWG (0.64 mm / 0.025inch)		24 AWG (0.5 mm / 0.02inch)	
	Max Run		Max Run		Max Run		Max Run		Max Run	
	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet
20mA	1195	3920	945	3100	750	2460	472	1550	296	970
30mA	793	2600	628	2060	500	1640	314	1030	197	646
40mA	597	1960	472	1550	375	1230	236	775	148	485
50mA	478	1568	378	1240	300	984	189	620	118	388
60mA	296	1300	314	1030	250	820	157	515	98	323
70mA	341	1120	270	886	214	703	135	443	84	277
80mA	299	980	237	775	187	615	118	388	74	243
90mA	264	867	209	687	166	547	105	343	66	215
100mA	239	784	189	620	123	492	94	310	59	194

Main Panel Technical Data:

Input Power	16.5 Volts AC @ 40 Volt-Amps (VA) (via integral transformer)
Current Consumption	60 mA, typical / 70 mA, maximum
Rechargeable Standby Battery	12 Volts up to 17 Amp-Hours (AH), typical
Power Outputs:	
Auxiliary Power	12 Volts DC @ 600 mA, maximum (from all AUX terminals)
Bell/LS (External) Sounder Output	12 Volts DC @ 900 mA, maximum
Programmable Voltage (Utility) Output	UO1: Relay (programmable output) (3 Amps) UO2: 500 mA transistor UO3-UO6: Open Collector, 70 mA, maximum
Cabinet Dimensions	375 mm x 330 mm x 98 mm
Main Board Dimensions	200 mm x 115 mm x 65 mm
Fuses	F3 3.0 A Battery Power
	AUX Automatic fuse
	BELL Automatic fuse

Technical Data of Expansion Modules:

Module	Current Consumption	Additional Information
8 LED Keypad	32 mA, typical / 44 mA maximum	
16 LED Keypad	32 mA, typical / 72 mA maximum	
LCD Keypad	75 mA maximum	
Proximity LCD Keypad	100 mA maximum	
8 zone expansion module	25 mA, typical / 30 mA, maximum	
16 zone expansion module	27 mA, typical / 34 mA, maximum	
8,16 wireless zone expansion module	12 mA, typical / 15 mA, maximum	Frequency: 868.6-868.7 MHz (narrowband operation in EU) Receiving Range: 200 m (Key fob) - 400 m (detectors)
4 relay output expansion module	25 mA, typical / 140 mA, maximum	Contacts: 4 Form C (SPDT) Relays. Contact rating: 3 A / 24V DC
8 transistor output expansion module	25 mA, typical / 30 mA, maximum	Contacts: Open Collector, Active Pull-Down, 70 mA maximum
Power Supply Expansion Module		Input Power: 16.5 Volts AC @ 40 VA (via transformer)
		Rechargeable Standby Battery: 12 Volts up to 17 Amp-Hours (AH), typical
		Power Outputs: Auxiliary power: 12 Volts DC @ 600 mA, maximum
		Bell/LS (External) Sounder Output: 12 Volts DC @ 900 mA, maximum
		Fuses: F1: Battery power 3.0 A
		F2: Auxiliary power 2.0 A
		F3: Bell/loudspeaker power 1.0 A
Event Log Expansion Module	25 mA, typical / X 30 mA, maximum	
Printer Module	7 mA, typical / 10 mA, maximum	
X-10 Transmitter Module	25 mA, typical / 29 mA, maximum	
Access Control Module	100 mA maximum	Input power 13.8V DC + 10%
		Readers Consumption 5V / 150 mA maximum
		Relay 24V DC / 1 A maximum
Voice Module	6 mA, typical/ 26 mA maximum	
Electronic Key Reader	11 mA, typical / 17 mA maximum	
Advance Digital Voice Module	38 mA, typical / 57 mA maximum	Audio Signal Max = 5V pp / Max = 2V
Voice Message Unit	9 mA (standby) / 60 mA (active speaking - normal volume) / 130 mA (active speaking - full volume)	Audio Signal V in max = 2.5V pp / V out max = 4V pp

RTTE COMPLIANCE STATEMENT
Hereby, Rokonet Electronics Ltd, declares that this control panel (RP128MC0000A, RP140MC0000A, RP116MC0000A), with wired accessories (including cables) and wireless accessories, is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.