Installer Guide

PowerMaster-10/ PowerMaster-30

Fully supervised wireless alarm control system

Visonic®

For a secure way of life

PowerMaster-10 / PowerMaster-30 Installer's Guide

TABLE OF CONTENTS

MESSAGE TO THE INSTALLER

This manual refers to PowerMaster-10 / PowerMaster-30 v13 and above. The most updated manuals can be downloaded from the Visonic Web site http://www.visonic.com.

The PowerMaster-10 / PowerMaster-30 control panel is supplied with 2 instruction manuals:

- **Installer's Guide** (this manual) – for use of system installer during system installation and configuration
- **User's Guide** -– also for use of system installer during system installation and configuration, but also for the master user of the system, once installation is completed. Hand this manual over to the master user of the system.

In addition each device comes with its own installation instructions (both physical installation and its PowerMaster-10 / PowerMaster-30 configuration options).

APPENDIX D. Detector Deployment & Transmitter Assignments of the Installer's Guide will help you prepare an installation plan. Consider filling out the forms - your job will become much easier and confusion will be prevented. Filling out the forms will also help you create a list of detectors and transmitters that must be obtained for the particular application.

Although setting the correct time and date is one of the user tasks, we recommend that you set the time and date in the course of programming. Access to the "User Settings" for the installer is possible from the installer's menu or through the user menu (see User's Guide Chapter 6).

After programming, proceed to install the system as detailed in the Installation Instructions.

For PSTN systems you should verify the alarm system is able to seize the telephone line in order to provide timely reports, even in cases where telephone line is being used when alarm occurs. Be aware of other phone line services such as DSL. If DSL service is present on the phone line, you must install a filter. It is suggested to use the DSL alarm filter model Z-A431PJ31X manufactured by Excelsus Technologies, or equivalent. This filter simply plugs into the RJ-31X jack and allows alarm reporting without breaking the internet connection.

Compliance Statement

Hereby, Visonic Group declares that the PowerG series of central units and accessories are designed to comply with:

- **U.S. Standards:** USA: (FCC) CFR 47 part 15 and part 68
- **Canada Standards:** RSS 210
- **European CE Standards**

The PowerMaster-10 / PowerMaster-30 complies with the RTTE requirements - Directive 1999/5/EC of the European Parliament and of the Council of 9 March 1999.

According to the European standard EN50131-1, the PowerMaster-10 / PowerMaster-30 security grading is 2 - "low to medium risk" and environmental classification is II – "indoor general" and the power supply type is A. EN 50131-6, and ATS4 according to EN 50136.

- **GSM standards:**

Europe: Complies with CE standards 3GPP TS 51.010-1, EN 301 511, EN301489-7

USA: CFR 47 Part 22 (GSM850) and Part 24 (GSM 1900).

1. INTRODUCTION

PowerMaster®-10 and PowerMaster®-30 are PowerG-enabled professional all-in-one wireless security, fire and safety systems supporting advanced applications and Visonic's new revolutionary PowerG™ Two-Way, Time Division Multiple Access (TDMA) and Frequency Hopping Spread Spectrum (FHSS) wireless technology. This offers unmatched wireless robustness, superior range and long battery life; a perfect and user friendly solution for both monitoring service providers and professional installers.

PowerG Main Benefits and Features:

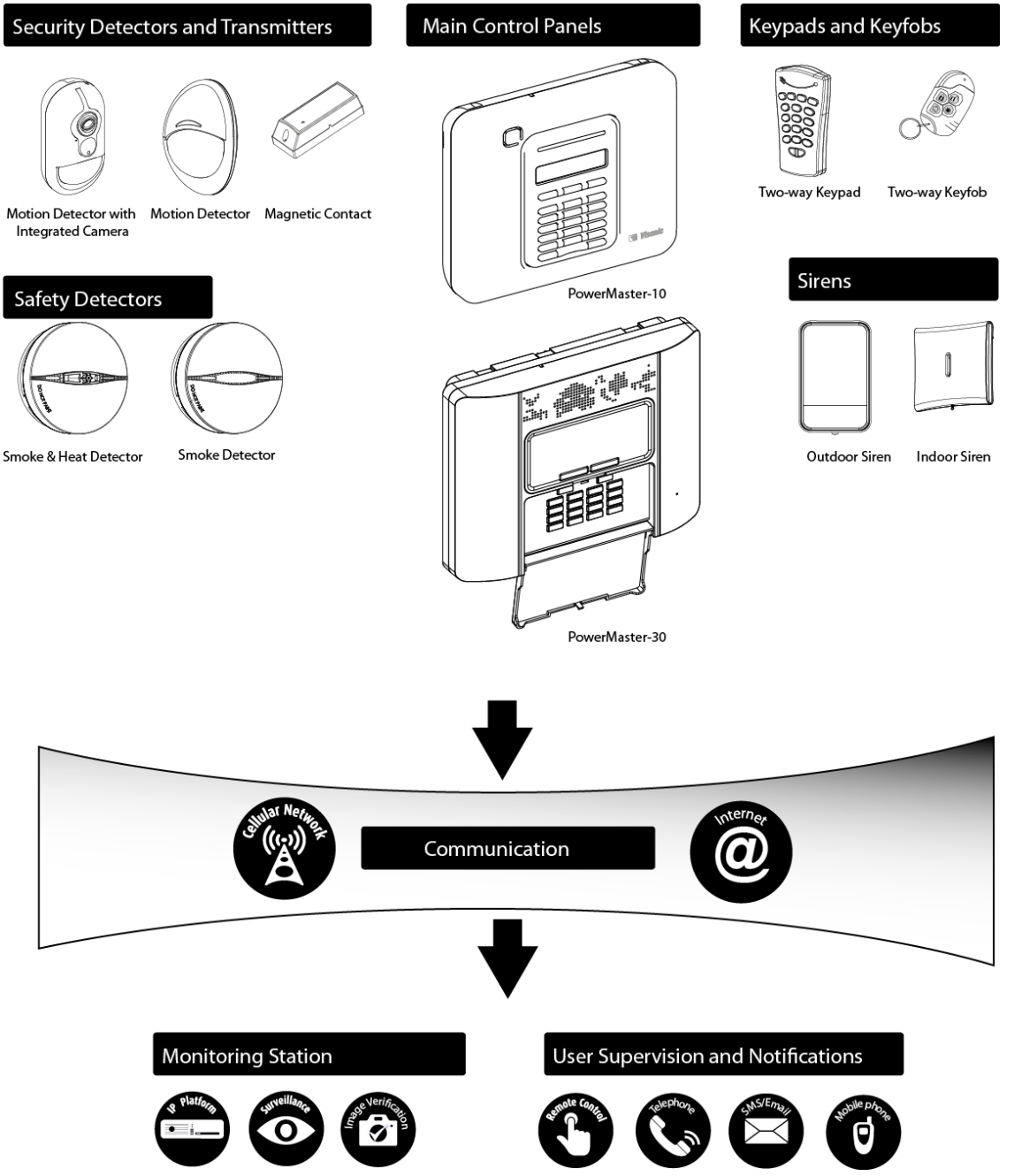
- Two-way communication ensures there are no lost alarms and saves battery life by eliminating unnecessary re-transmissions
- Multiple channels (up to 50) and frequency hopping technology overcomes interferences to wireless communication
- Transmission range is by far greater than the industry standard (2000m, 6000ft), enabling repeater-free installations even in large premises
- Message collisions are eliminated by using the same technologies used in WiMAX, GSM and Bluetooth
- Devices dynamically start and stop using available repeaters according to need
- Smart mechanism enables adjacent systems to co-exist without disturbing one another
- Short keep-alive period provides reliable supervision of any vandalism attempts or device failure
- Communication is protected by the proven AES-128 encryption algorithm to protect against sophisticated intruders
- 5-8 years battery life for all peripherals

PowerMaster System Main Benefits and Features:

- All PowerG benefits
- Quick and easy installation and on-site diagnostics
- Up to 3 partitions* saves cost and allows support for complex sites
- Two-way voice communication*
- All devices are configured from the panel – no hardware switches and no need to re-open the peripherals once closed
- 7-digit code on each device is used for easy local or remote enrollment
- Configuration templates enable to configure the devices collectively instead of individually
- Special button on each device prevents RF activity from interfering with enrollment procedures
- Wireless signal quality indication visible on all devices – enables to choose the ideal location for installation without using the panel during mounting of peripherals
- Powerful diagnostic tool indicates RF link quality to show abrupt problems and to verify installation in house setup.
- Remotely review and/or change configuration and status of all peripherals
- Initiate remote walk test with assistance by anyone in the house
- Remote diagnostics of wireless signal quality for all peripherals - measure all wireless connections and reports back
- Distributed siren using smoke detectors (SirenNet)
- Visual verification
- All-in-one self-contained alarm system with built-in Siren and Keypad
- Up to 2 wired zones and programmable PGM
- Reporting to Private and Monitoring Station by voice, SMS, digital communication, etc., over cellular, or phone line, and various monitoring station protocols.
- Device locator - helps you to identify open or troubled devices indicated on the LCD display.
- New Guardbox zone type enables you to disarm the system after an alarm using a dedicated user code.

* Refers to PowerMaster-30 only

System Architecture:



1.1 System Features

The following table lists the PowerMaster-10 / PowerMaster-30 features with a description of each feature and how to use it.

Feature	Description	Reference
Visual Alarm Verification	The PowerMaster-10 / PowerMaster-30 when used with Next CAM PG2 PIR camera enables accurate assessment of the situation inside the premises by providing the Monitoring Station with visual clips captured by motion cameras when an alarm is triggered in burglary, fire, and personal alarm situations. The system sends the clips to the Monitoring Station automatically for burglary alarms and, depending on setup, also for fire and personal emergency alarms	**To configure camera settings:** refer to the Next CAM PG2 Installation Instructions **To enable fire and personal alarm verification:** see section 3.6.6 Configuring Motion Cameras for Video Alarm Verification
On demand	The PowerMaster-10 / PowerMaster-30 can provide images from the Next CAM PG2 by demand from a remote PowerManage server. Pictures are taken based on a command from the monitoring station. To protect customers' privacy, the system can be customized to enable the "On Demand View" only during specific system modes (i.e. Disarm, Home & Away) and also to a specific time window following an alarm event.	**To setup the On demand feature:** see section 3.6.6 Configuring Motion Cameras for Video Alarm Verification **To request and view images:** refer to the PowerManage User's Guide, Chapter 5 Viewing and Handling Events
Enrollment	PowerG devices are enrolled from the control panel. "Pre-enrollment" can also be performed by entering the PowerG device ID number (printed on the back of each device) and then activating the device in the vicinity of the panel (due to the possibility of the device being shipped to the end user prior to this stage).	**To understand the enrollment and the pre-enrollment procedure using the panel:** see section 3.4.2 Adding (Enrolling) New Wireless Devices or Wired Sensors
Configuration	Device parameters and related system behavior can be configured from the control panel or from a remote location.	**To configure devices from the control panel:** see Chapter 3 Programming **To configure devices from a remote location:** refer to the PowerManage User's Guide Chapter 3 Working with Panels and to the Remote Programmer PC software User's Guide, Chapters 6 and 7.
Diagnostics of the control panel and peripherals	You can test the function of all wireless sensors deployed throughout the protected area, to collect information	**To test the function of wireless sensors and to obtain their received signal strength indication:** see section 3.9

	about the received signal strength from each transmitter and to review accumulated data after the test.	Diagnostics
Conducting walk tests	You can conduct a periodic test at least once a week and after an alarm event. The walk test can be conducted from remote locations, with assistance from anyone in the house.	**To conduct a walk test locally from the panel**: see Chapter 4 Periodic Test **To conduct a walk test remotely:** refer to the Remote Programmer PC software User's Guide, Chapter 6 Data Details Tables.
Up to 3 partitions*	The partitioning feature divides your alarm system into distinct areas each of which operates as an individual alarm system. Partitioning can be used in installations where shared security systems are more practical, such as a home office or warehouse building. Partitioning is not available with some panels and when available must be enabled and properly configured.	**To understand partitioning:** see Appendix C. Working with Partitions and Appendix A in the User's Guide. **To enable partitioning:** see section 3.14 Partitioning **To setup a partitioned system:** see section 3.4.2 Adding (Enrolling) New Wireless Devices or Wired Sensors
Two-way voice communication**	The PowerMaster system enables voice communication with Monitoring Stations	**To configure the two way voice channel settings of the PowerMaster:** see section 3.6.4 Configuring Events Reporting to Monitoring Stations
Device configuration from the panel	Each PowerG device has its own settings which can be configured through the control panel by entering the "DEVICE SETTINGS" menu.	**To configure the device parameters:** refer to the device's Installation Instructions
Device configuration defaults	The defaults of device parameters can be configured according to your personal preferences for each new device enrolled in the system. You can use a certain set of defaults for a certain group of devices and change the defaults for another group.	**To define defaults for device parameters:** see section 3.4.6 Defining Configuration Defaults for "Device Settings"
SirenNet - distributed siren using Smoke detectors	The smoke detector includes a siren with four sounder types that can activate burglary, gas, fire and flood alarms.	**To use SirenNet:** refer to the SMD-426 PG2 / SMD-427 PG2 Installation Instructions
Integrated built-in Siren	The control panel has a high-powered built-in siren that sounds in case of alarm.	**To understand the wiring of the internal siren:** see section 2.3.9 Optional Expander Module Mounting **To define whether or not the internal siren will sound alarms:** see section 3.5.5 Configuring Sirens Functionality

* Refers to PowerMaster-30 only
** Refers to PowerMaster-30 with voice option only

Wired zones and PGM	The control panel includes two hardwired connections: one for wired zones and the other for the PGM programmable wired switch.	**To add a wired zone or PGM:** see section 2.2.8 Adding a Wired Zone or PGM. **To program the PGM output:** see section 3.7 PGM Output.
Reporting to Private and Monitoring Station by voice, SMS and digital communication	The PowerMaster-10 / PowerMaster-30 system can be programmed to send various event notification messages such as alarm, arming or trouble events to 4 private telephone subscribers by audible signal and also to 4 SMS telephone numbers and to enable two-way voice communication* with the Monitoring Station.	**To configure GSM reporting to Private phones:** refer to the PowerMaster User's Guide, Chapter 6, section C.11 Programming Private Phone and SMS Reporting **To configure GSM reporting to the Montioring Station:** see section 3.6.4 Configuring Events Reporting to Monitoring Stations **To configure GPRS reporting to the Monitoring Station:** see section 3.6.4 Configuring Events Reporting to Monitoring Stations
Quick installation features	Choosing the ideal location to mount a wireless device can be cumbersome procedure of running back and forth to the panel to read the link quality. With PowerG devices, there is no need to consult the panel since all PowerG devices include a built-in link quality indicator. Therefore, choosing the ideal location is done quickly and easily.	To choose the ideal location to mount a wireless device, see section 2.1 Choosing the Mounting Location
Device Locator	Helps you to easily identify the actual device displayed on the LCD display.	**To read more on the Device Locator:** refer to the PowerMaster User's Guide, Chapter 2 Operating the PowerMaster System **To use the device locator when bypassing a zone or when clearing a bypassed zone:** refer to the PowerMaster User's Guide, Chapter 6, section C.1 Setting the Zone Bypass Scheme **To use the device locator when conducting the periodic test:** see Chapter 4 Periodic Test or refer to the PowerMaster User's Guide, Chapter 9 Testing the System

* Refers to PowerMaster-30 with voice option only

2. INSTALLATION

2.1 Choosing the Mounting Location

To ensure the best possible mounting location of the PowerMaster-10 / PowerMaster-30 control panel, the following points should be observed:

- Mount the system approximately in the center of the installation site between all the transmitters
- In close proximity to an AC source and a telephone line connection (if PSTN is used)
- Far from sources of interference, such as:

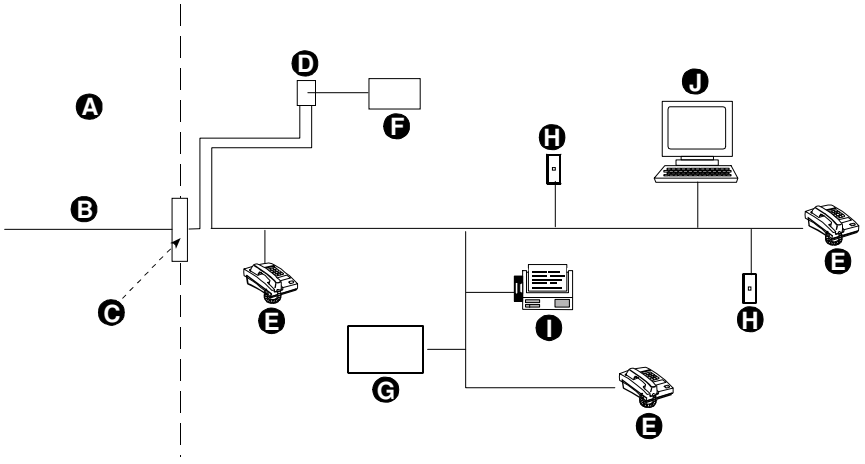
  electrical noise and strong electromagnetic sources, such as computers, television, power conductors, cordless phones, light dimmers, etc.

  large metal objects (such as metal doors and metal closets)

  Note: *A distance of at least 1 meter (3 ft) is recommended.*
- Make sure that the signal reception level for each transmitter's signal, shown during the Diagnostics test of the PowerMaster-10 / PowerMaster-30, is "Strong" or "Good".
- The alarm can be heard during HOME mode.
- Wireless magnetic contacts should be installed in a vertical position and as high up the door or window as possible.
- Wireless detectors should be installed at the height specified in their Installation Instructions
- Repeaters should be located high on the wall in mid-distance between the transmitters and the control panel.

WARNING! *To comply with FCC and IC RF exposure compliance requirements, the control panel should be located at a distance of at least 20 cm from all persons during normal operation. The antennas used for this product must not be co-located or operated in conjunction with any other antenna or transmitter.*

Customer Premises Equipment And Wiring



A. Network Service Provider's Facilities
B. Telephone Line
C. Network Demarcation Point
D. RJ-31X Jack
E. Telephone
F. Alarm Dialing Equipment
G. Answering System
H. Unused RJ-11 Jack
I. Fax Machine
J. Computer

Note: *The REN is used to determine the number of devices that may be connected to a telephone line. Excessive RENs on a telephone line may result in the devices not ringing in response to an incoming call. In most but not all areas, the sum of RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact the local telephone company.*

Connection to telephone company provided coin service is prohibited. Connection to party lines service is subject to state tariffs.

The installer should verify line seizure. Be aware of other phone line services such as DSL. If DSL service is present on the phone line, you must install a filter. It is suggested to use the DSL alarm filter model Z-A431PJ31X manufactured by Excelsus Technologies, or equivalent. This filter simply plugs into the RJ-31X jack and allows alarm reporting without breaking the internet connection.

2.2 PowerMaster-10 Installation

Required tool: Philips screwdriver #2.
PowerMaster-10 mounting process is shown in Figures 3.1 - 3.2.

2.2.1 Opening the PowerMaster-10 Control Panel and Bracket Mounting

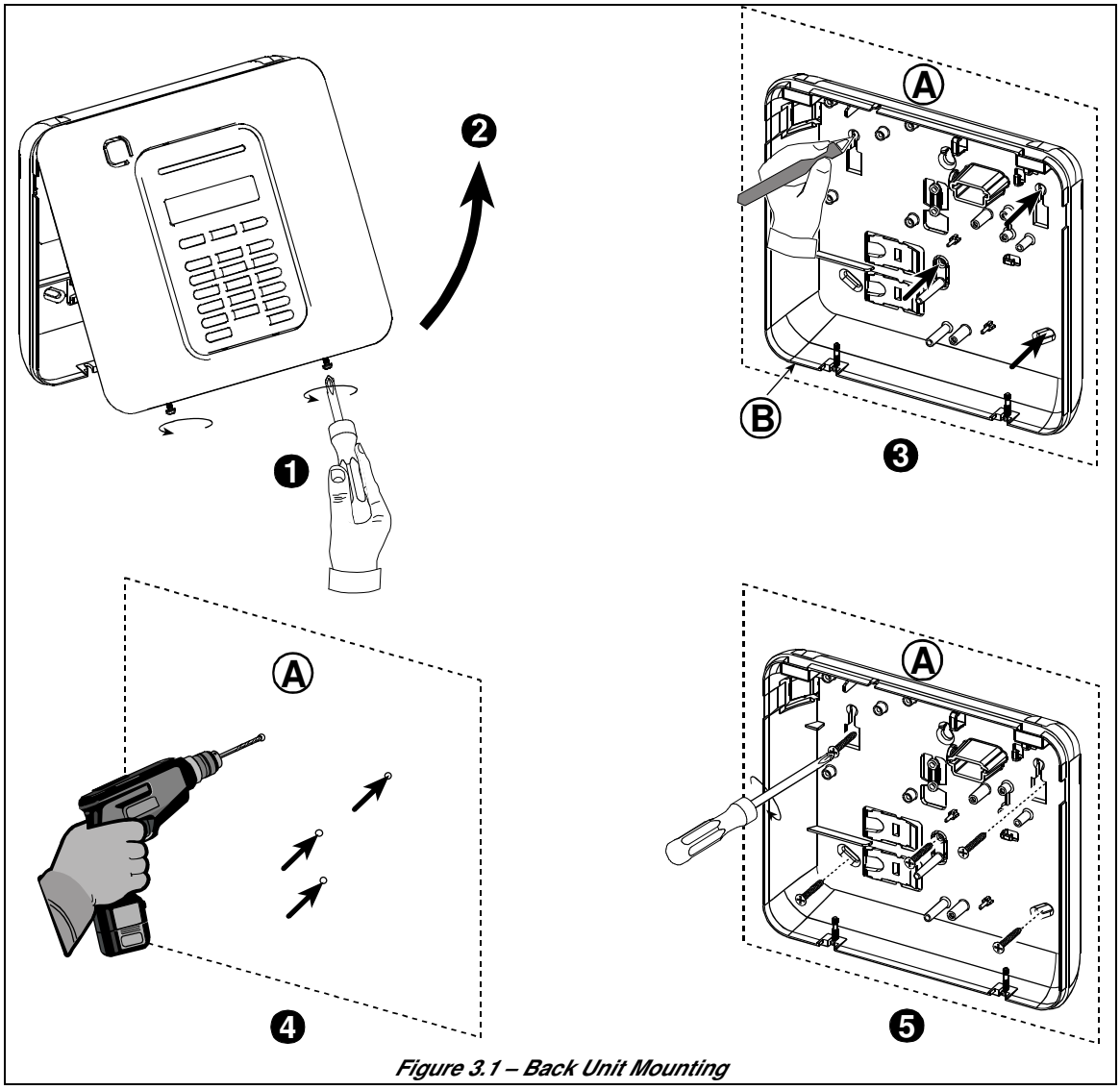


Figure 3.1 – Back Unit Mounting

To Mount the Unit:

1. Release the screws

2. Remove the front cover

3. Mark 4 drilling points on the mounting surface

4. Drill 4 holes and insert wall anchors

5. Fasten the back unit with 4 screws

A. Mounting surface

B. Back unit

WARNING! *When plugging SIREN & ZONE terminals back into place, be sure to align them carefully with the pins on the PCB. Misaligned or reverse insertion of terminals may cause internal damage to the PowerMaster-10!*

2.2.2 Closing the PowerMaster-10 Control Panel

Control panel final closure is shown below.

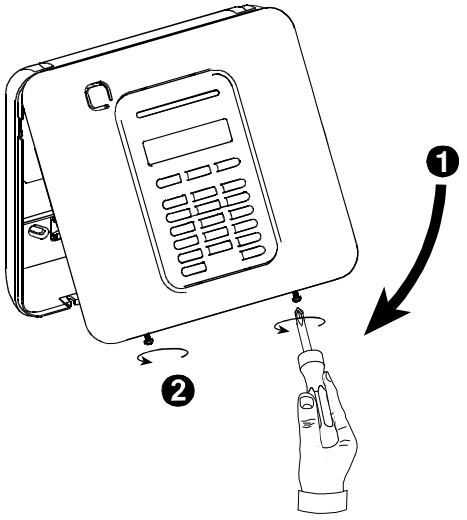


Figure 3.2 - Final Closure

To Close the Control Panel:
1. Close the front cover
2. Fasten the screws

2.2.3 Supplying Power to the Unit

Connect power to the PowerMaster-10 temporarily (see Figure 3.3). Alternatively, you may power up from the backup battery, as shown in Figure 3.3.
Disregard any “trouble” indications pertaining to lack of battery or lack of telephone line connection.

For Europe Safety Compliance:

a. The model shall be installed according to the local electrical code.
b. The circuit breaker shall be readily accessible.
c. The rating of the external circuit breaker shall be 16A or less.
d. The cables for the AC mains connection shall have an overall diameter of 13mm and 16mm conduit.

Please refer to Figure 3.3 "Power Cable Connection".

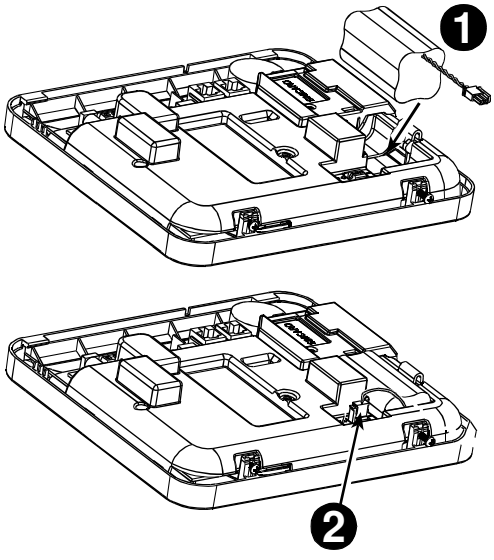


Figure 3.3 – Connecting Power to the Control Panel

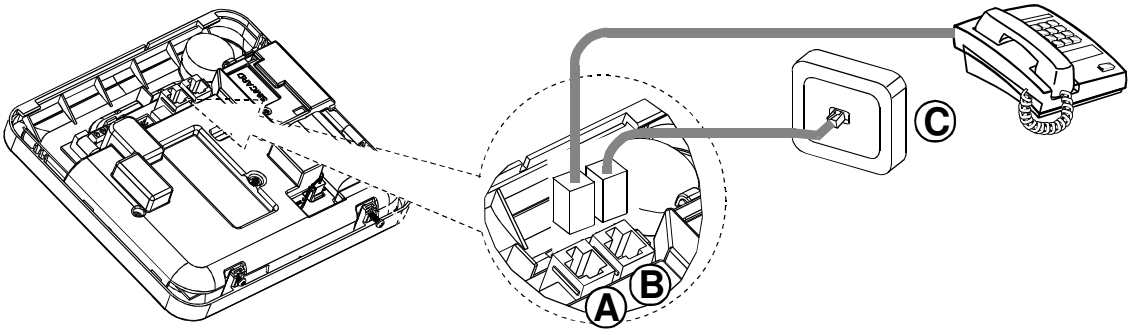
Inserting Backup Battery:
Connect battery pack as shown in Figure 3.3.
1. Insert battery
2. Connect the battery

2.2.4 Connecting to the Telephone Line

PHONE WIRING

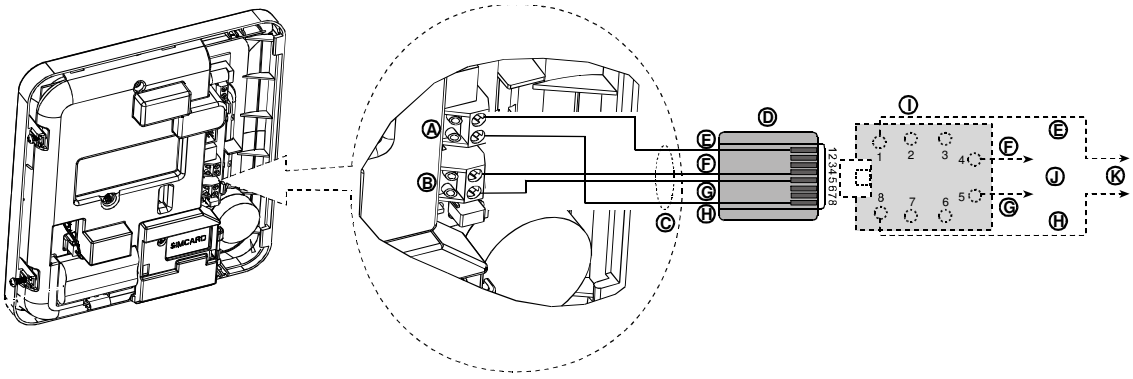
Connect the telephone cable to the SET connector and connect the telephone line cable to the LINE connector (through the desired wiring cable entry).

Note: *The telephone cable should be no longer than 3 meters.*



A. SET
B. LINE
C. Tel line wall jack

PHONE WIRING IN NORTH AMERICA



A. SET
B. LINE
C. RJ-31X cord
D. 8-position RJ-31X plug
E. Gray
F. Red
G. Green
H. Brown
I. RJ-31X jack
J. Line from street
K. House phones

Figure 3.4 –Phone Wiring

This equipment is designed to be connected to the telephone network using an RJ11 connector which complies with Part 68 rules and requirements adopted by ACTA and a properly installed RJ31X connector. See drawing above for details.

In the case that RJ31X is not available (consult your telephone company or a qualified installer), the telephone line should be connected to the PowerMaster-10 unit first and then all other home equipment should be connected to the PowerMaster-10 "Phone" outlet.

2.2.5 System Planning & Programming

It pays to plan ahead - use the tables in APPENDIX D. Detector Deployment & Transmitter Assignments and APPENDIX E. Event Codes at the end of this guide to register the intended location of each detector, the holder and assignment of each transmitter.

Gather up all transmitters and detectors used in the system and mark each one in accordance with your deployment plan.

Program the system now, before mounting, as instructed in the programming section.

2.2.6 GSM Module Installation

The internal GSM 350 module enables the PowerMaster-10 system to operate over a GSM/GPRS cellular network (for further details, see the GSM 350 PG2 Installation Instructions).

The GSM modem auto detection feature enables automatic enrollment of the GSM modem into the PowerMaster-10 control panel memory. GSM modem auto detection is activated in one of two ways: after tamper restore and after reset (power-up or after exiting the installer menu). This causes the PowerMaster-10 to automatically scan GSM COM ports for the presence of the GSM modem.

In the event that the GSM modem auto detection fails and the modem was previously enrolled in the PowerMaster-10 control panel, the message "Cel Rmvd Cnfrm" will be displayed. This message will disappear from the display only after the user presses the i OK button. The modem is then considered as not enrolled and no GSM trouble message will be displayed.

Note: *A message is displayed only when the PowerMaster-10 alarm system is disarmed.*

Plug in the GSM module and fasten it as shown in Figure 3.5.

A. GSM

B. Front unit

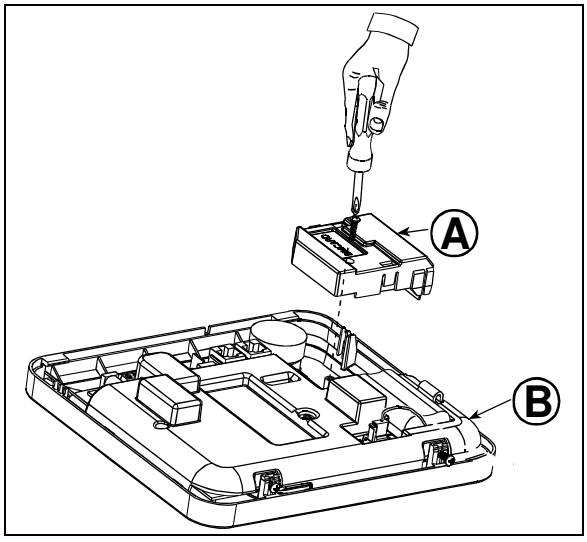


Figure 3.5 –Optional GSM Module Mounting

Inserting the SIM card into the GSM module (see Figure 3.6).

1. Slide top cover.
2. Open cover
3. Align SIM card in cover (note cover orientation)
4. Slide SIM card into cover
5. Rotate cover to close
6. Lock cover to close

IMPORTANT! Do not insert or remove SIM card when the control panel is powered by AC power or battery.

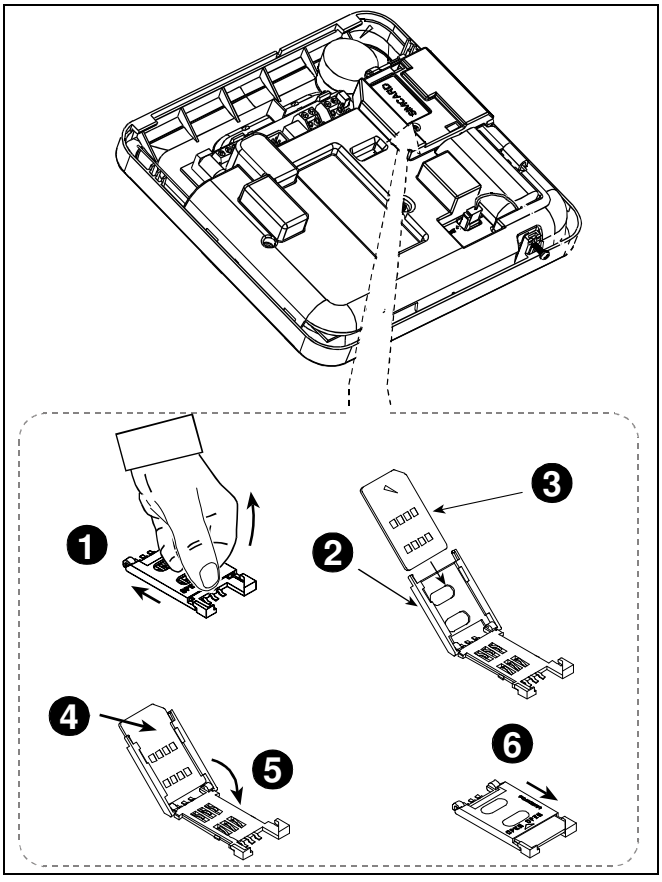


Figure 3.6 – SIM Card Insertion

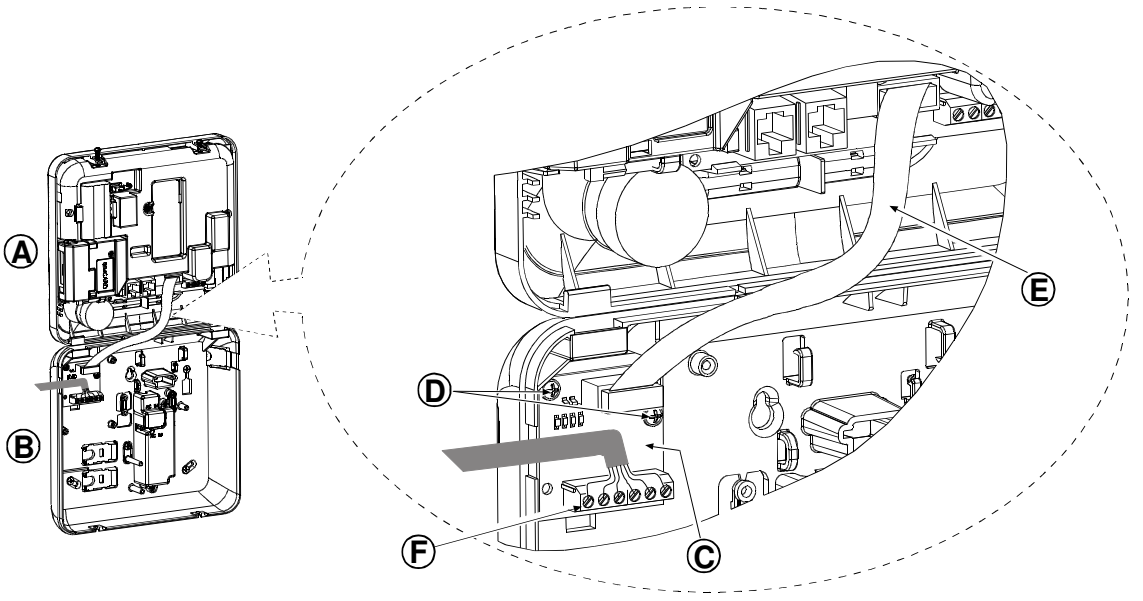
2.2.7 PGM-5 Installation

PGM-5 is an output interface module designed to provide alarm, trouble events and status signals to external devices such as long range wireless monitoring transmitters, CCTV systems, home-automation systems and LED annunciation panels (for further details see the PGM-5 Installation Instructions).

The PGM-5 provides 5 solid state relay contact outputs and is designed to be used as a plug-in internal add-on module with the PowerMaster-10 control panel.

Note: *The PGM-5 will be active only if the PGM-5 option was enabled in the factory default of the control panel.*

Caution! When mounting the PGM-5 module it is strongly recommended to route the cable as shown in Figure 3.7 to prevent interference which may occur if routed too close to the control panel antennas.



A. Front unit
B. Back unit
C. PGM-5 Module
D. 2 Screws for fastening the PGM-5 Module
E. Flat cable
F. Wiring

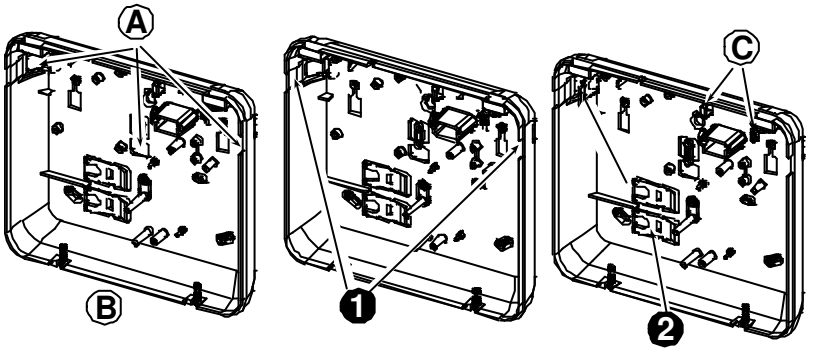
Figure 3.7 – PGM-5 Module Mounting

2.2.8 Adding Wired Zones or PGM

Required tools: Cutter and slotted screwdriver - 3 mm blade.

PowerMaster-10 wiring is shown in Figures 3.8 – 3.11.

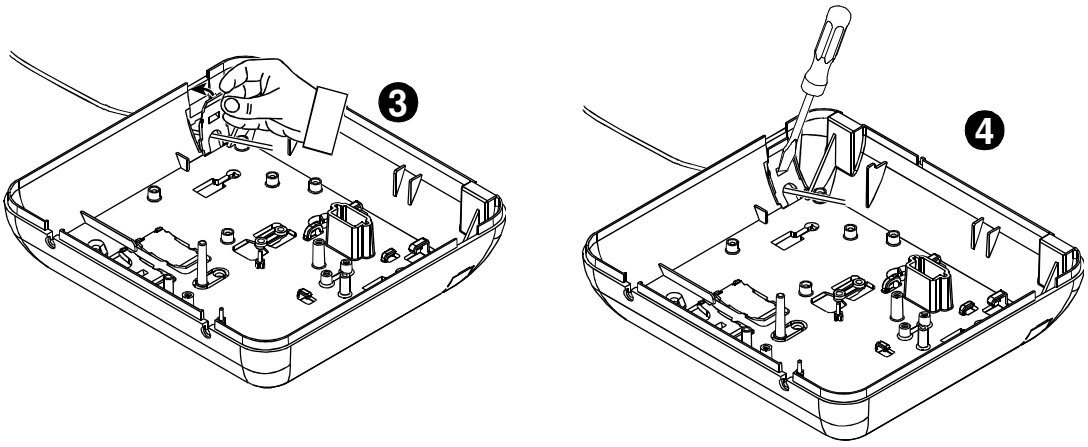
CABLES ROUTING GUIDE



A. Cables entry options
B. Back unit
C. Cable clips

To Route the Cable:

1. Remove the left or right side cables entry knockout(s) and enter the required cable(s)
2. Remove and use as cable clamp(s)



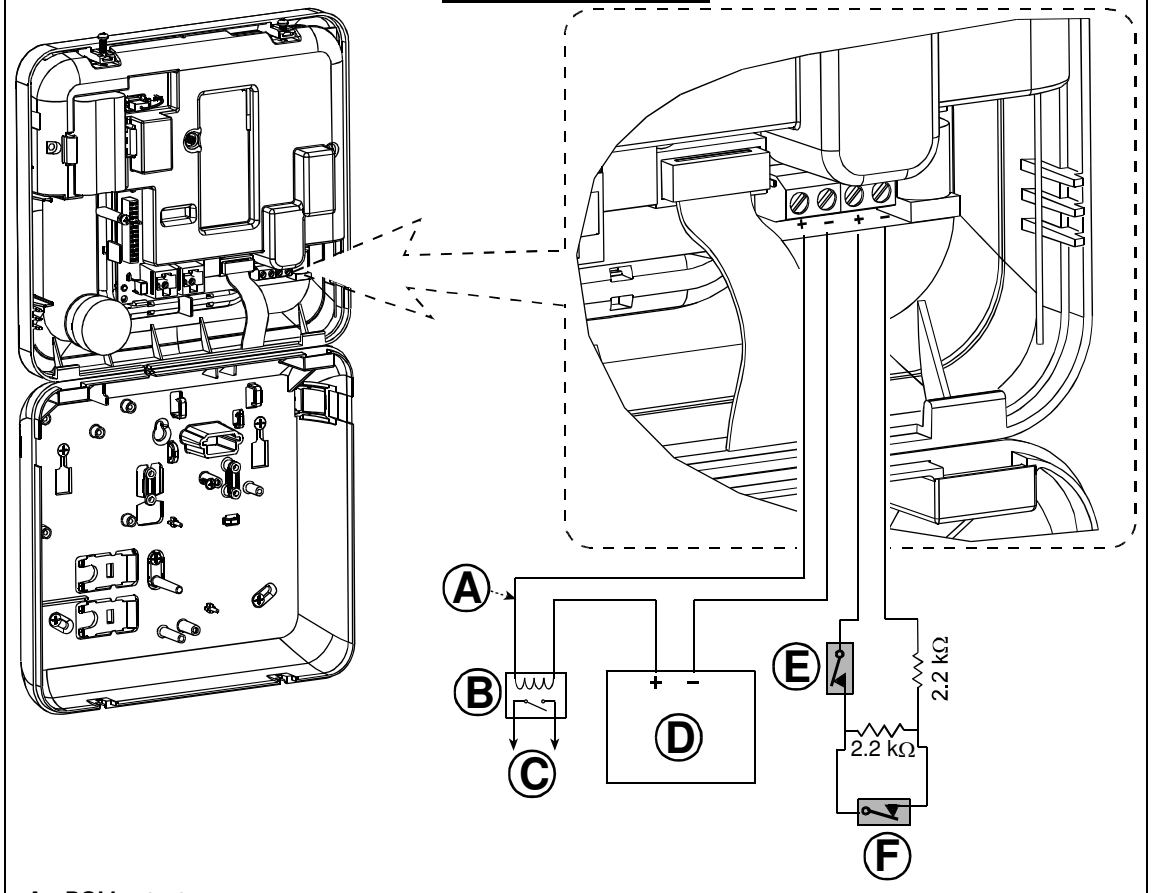
To Route the Cable (continued):

3. Position the clamp (1 of 2) as shown and then rotate into place.

4. Using a slotted screwdriver press downward gently on the point illustrated in the drawing. Make sure the clamp is locked (a click is heard).

Figure 3.8 – Cable Wiring

PGM AND ZONE WIRING



A. PGM output
Vmax=30v
Imax=100mA

B. Relay

C. Device

D. External power supply 5 - 30VDC

E. Tamper

F. Alarm

Note: *Do not use mains cable other than that supplied by the manufacturer (3 m long).*

Figure 3.9 – PGM & Zone Wiring

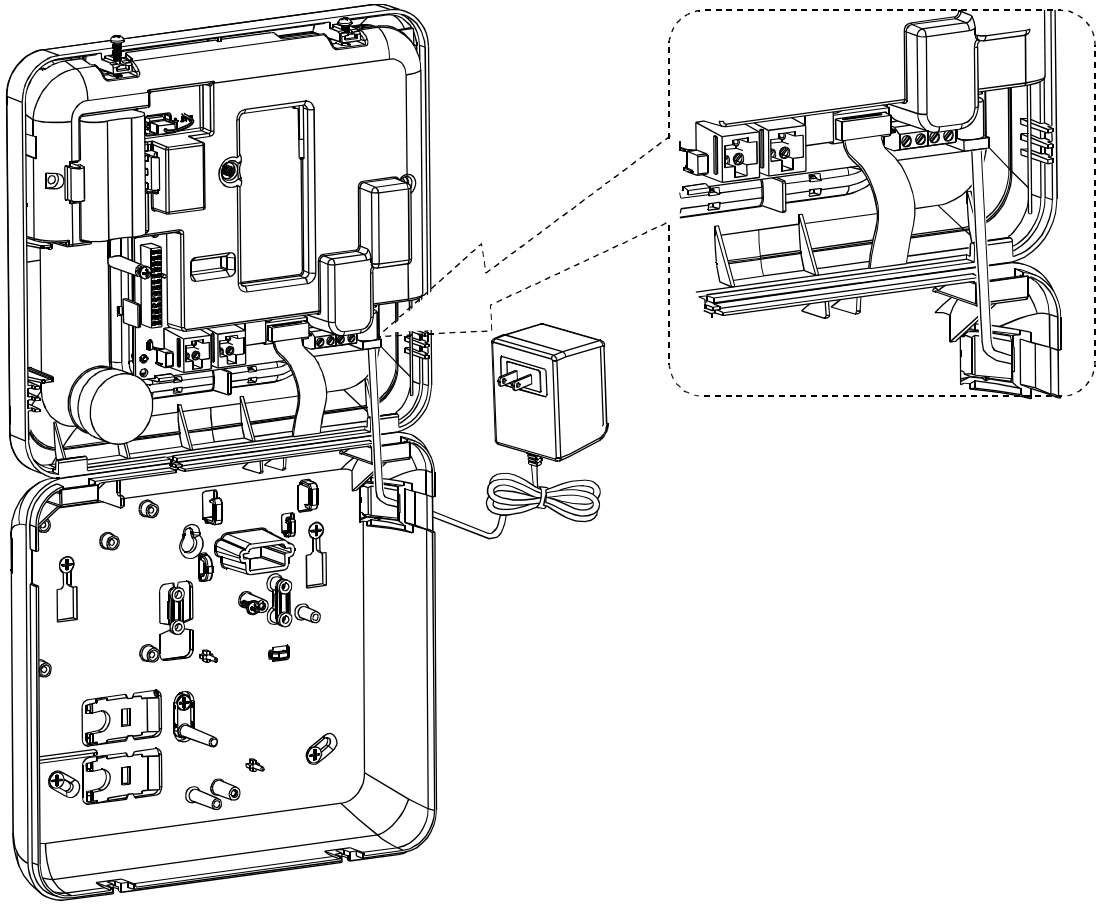
2.2.9 Connecting Power to the Control Panel

CONNECTING AC POWER TO CONTROL PANEL USING AC/AC TRANSFORMER

Connect the power cable and close the control panel as shown below. Electrical socket-outlet shall be installed near the equipment and shall be easily accessible.

WARNING! *DO NOT USE AN OUTLET CONTROLLED BY A WALL SWITCH.*

Note: *This equipment should be installed in accordance with Chapter 2 of the National Fire Alarm Code, ANSI/NFPA 72, (National Fire Protection Association).*

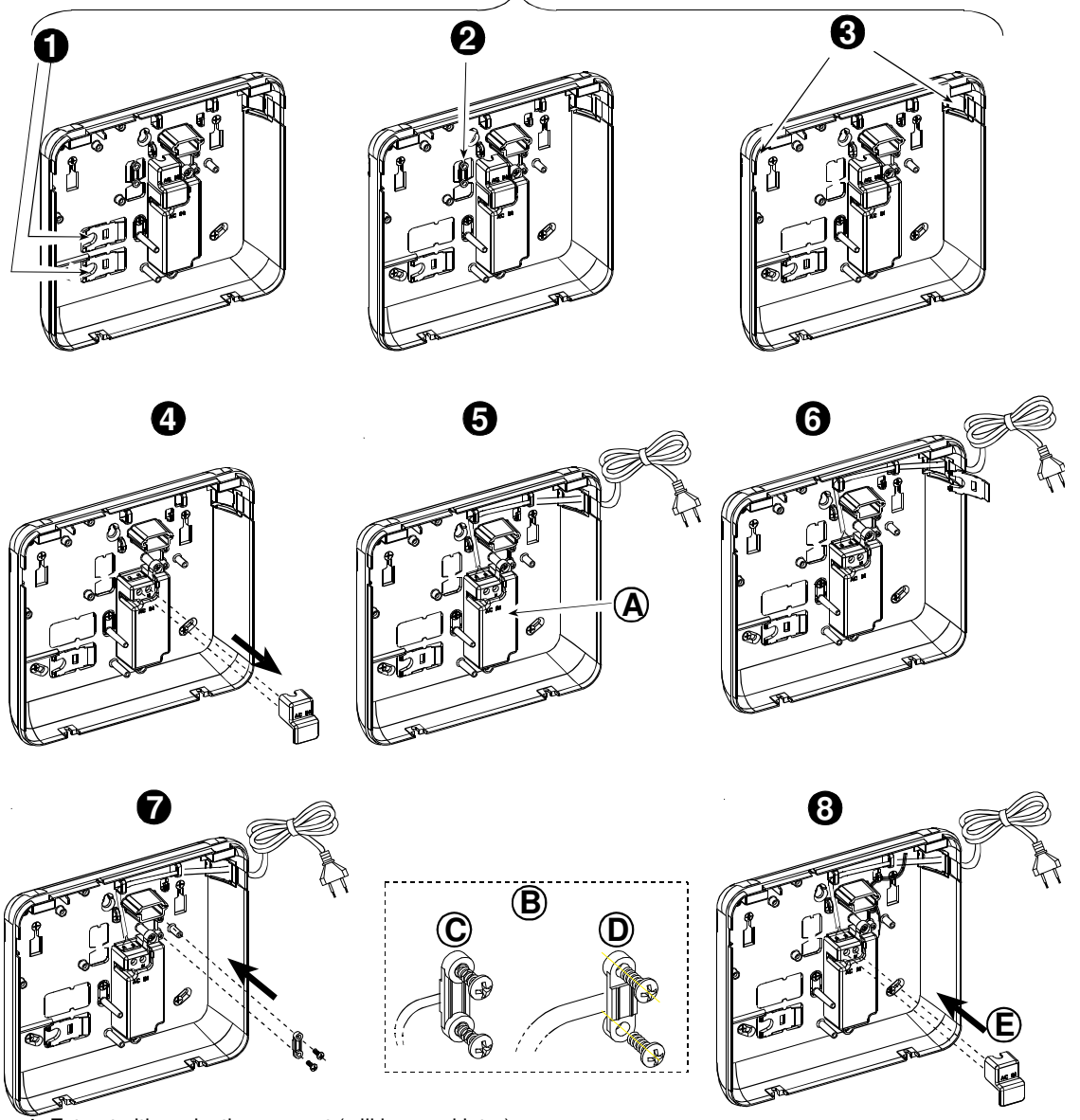


Connect the power adapter to the power connector.

Figure 3.10 - Power Cable Connection

CONNECTING AC POWER USING INTERNAL AC/DC POWER SUPPLY UNIT

PERFORM STEPS 1, 2 & 3 ON A WORKBENCH BEFORE THE MOUNTING



1. Extract either plastic segment (will be used later)
2. Extract plastic segment (will be used later)
3. Knock out the plastic segment (left or right, according to the power wiring direction)
4. Remove power supply terminals cover (E)
5. Insert the power cable through the desired wiring channel, route it to the power supply unit and connect its 2 wires to the power supply terminal block with a screwdriver. Fasten the screws tightly. Verify that the wires are properly fastened!
6. Insert plastic cap to the power cable entry (extracted in step 1)
7. Fasten power cable by clamp (extracted in step 2)
8. Close power supply terminals cover

A. Internal AC/DC power supply unit
B. Power cable clamp options
C. For thin cable
D. For thick cable (reversed clamp)
E. Terminals cover

Figure 3.11 – Power Cable Wiring

INTERNAL AC/DC POWER SUPPLY UNIT DC POWER CONNECTION

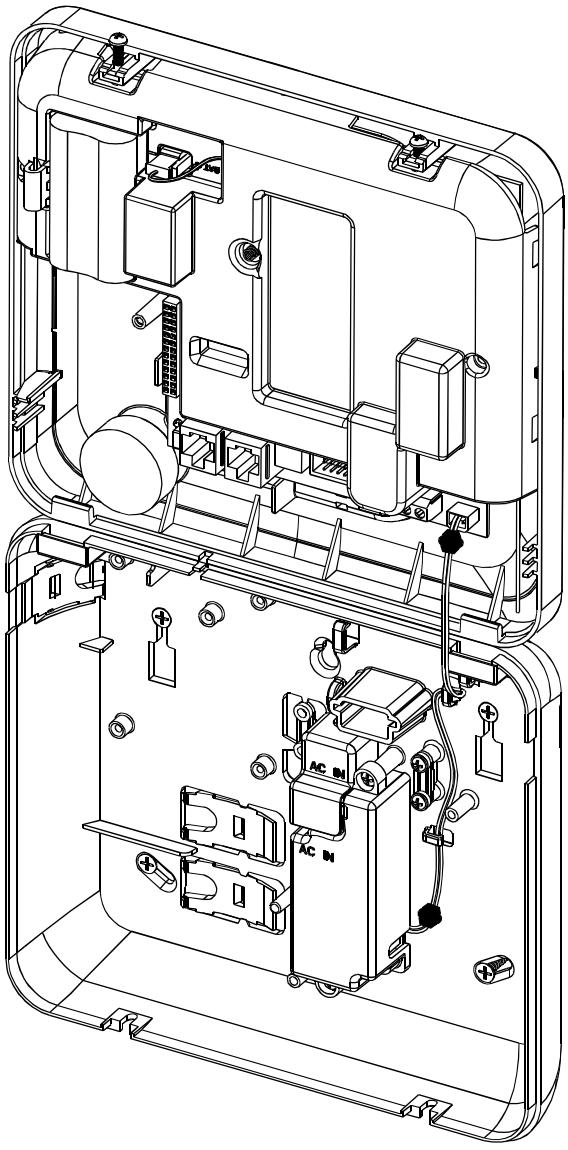


Figure 3.12 – Internal Power Cable Connection

2.3 PowerMaster-30 Installation

Required tool: Philips screwdriver #2.
PowerMaster-30 mounting process is shown in figure 3.13 - 3.23.

2.3.1 Opening the PowerMaster-30 Control Panel and Bracket Mounting

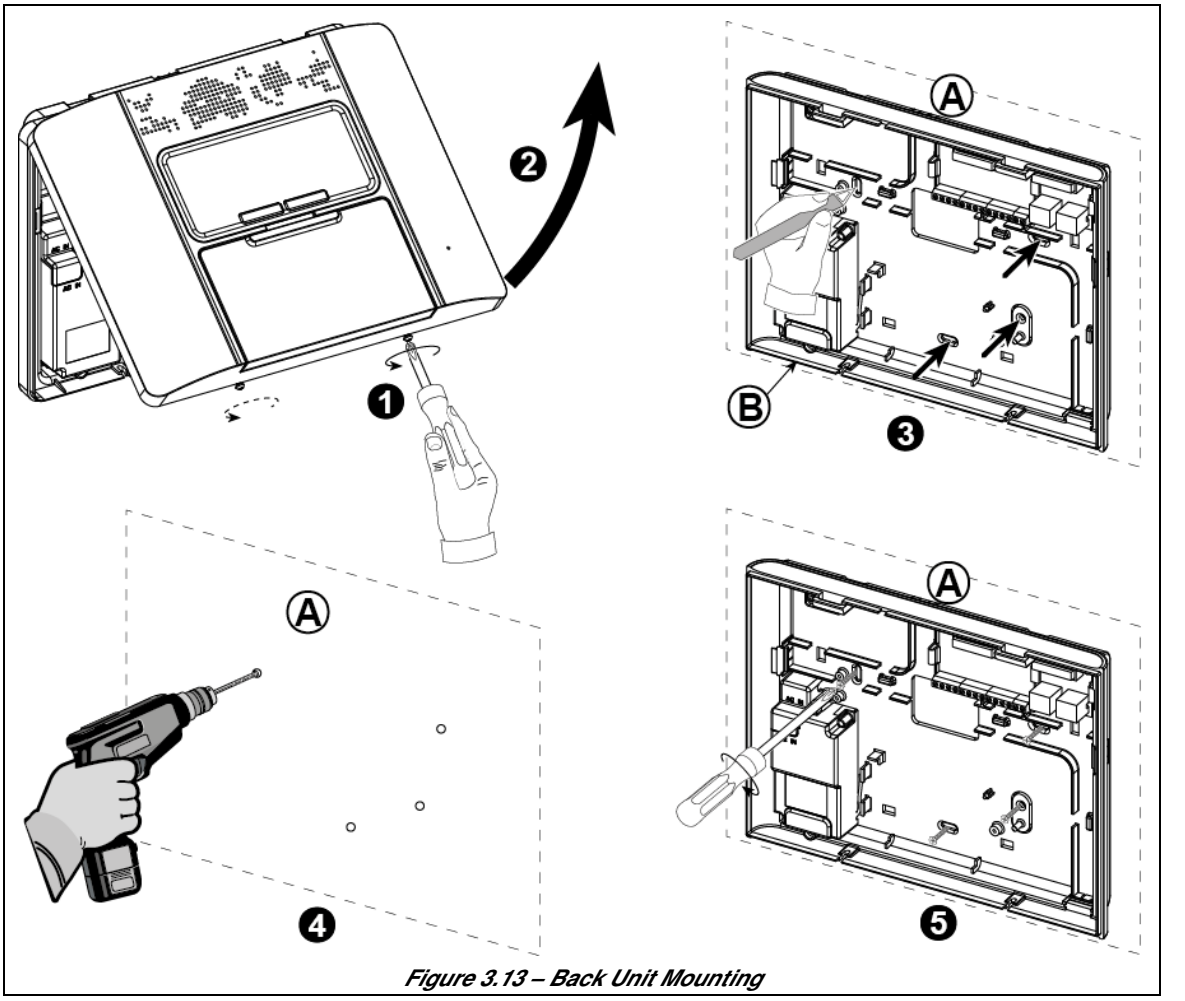


Figure 3.13 – Back Unit Mounting

To Mount the Unit:

1. Release the screws
2. Remove the front cover
3. Mark 4 drilling points on the mounting surface
4. Drill 4 holes and insert wall anchors
5. Fasten the back unit with 4 screws

A. Mounting surface
B. Back unit

2.3.2 Closing the PowerMaster-30 Control Panel

Control panel final closure is shown below.

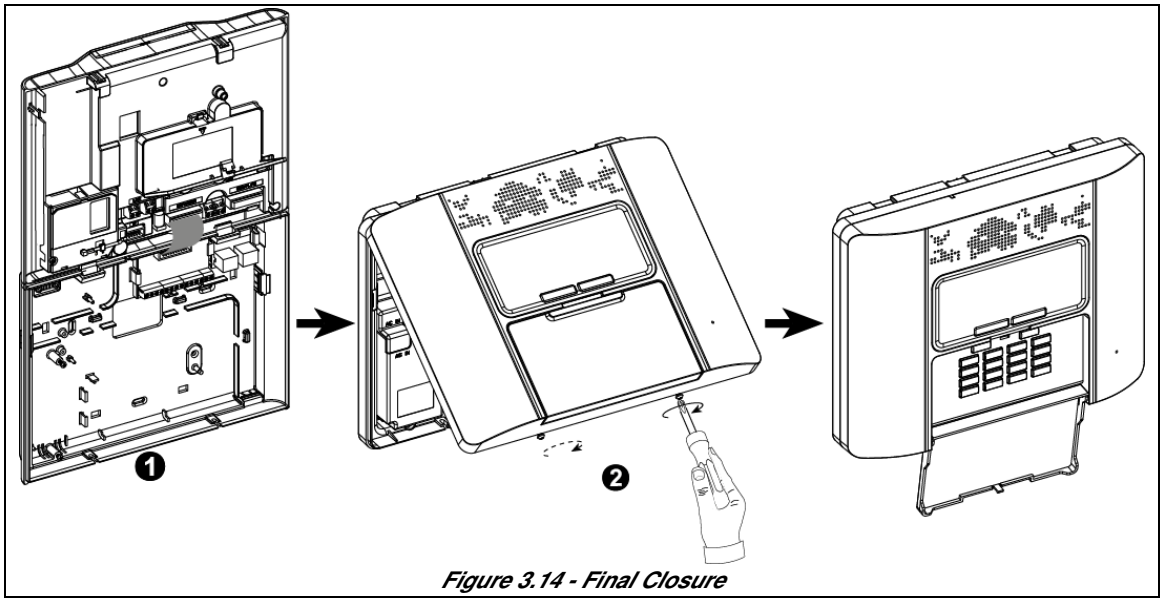


Figure 3.14 - Final Closure

To Close the Control Panel:

1. Connect the flat cables, between front and back units, in their respective connectors (up to 3, according to options).
2. Close the panel and fasten the 2 screws.

2.3.3 Supplying Power to the Unit

Connect power to the PowerMaster-30 temporarily (see Figure 3.23). Alternatively, you may power up from the backup battery, as shown in Figure 3.15.

Disregard any "trouble" indications pertaining to lack of battery or lack of telephone line connection.

Open battery compartment cover (see Figure 3.15).
Insert one 6-battery pack or 8-battery pack and connect its connector as shown in Figure 3.15.

A. Front unit

B. Battery cable

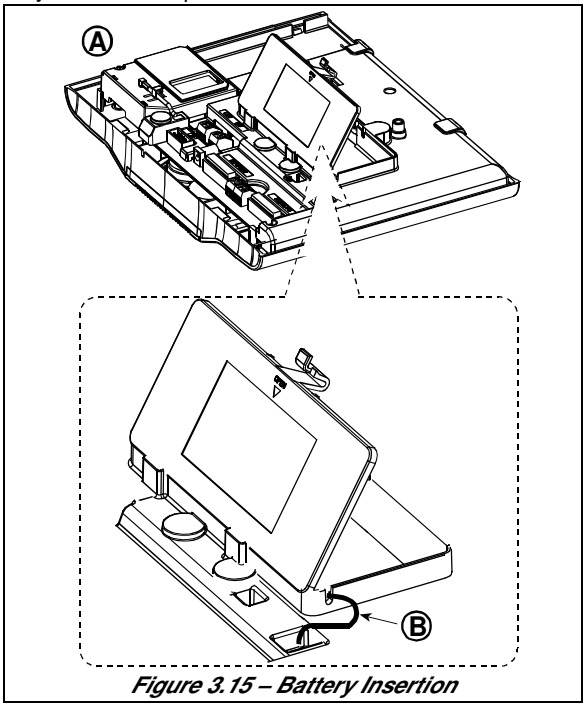


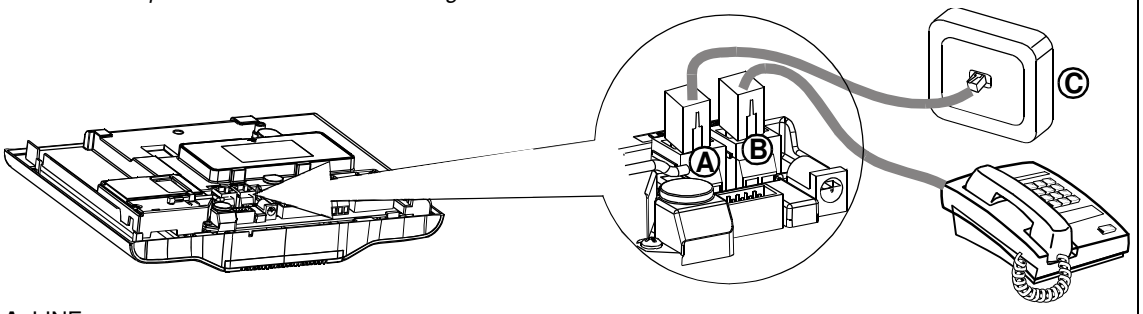
Figure 3.15 – Battery Insertion

2.3.4 Connecting to the Telephone Line

PHONE WIRING

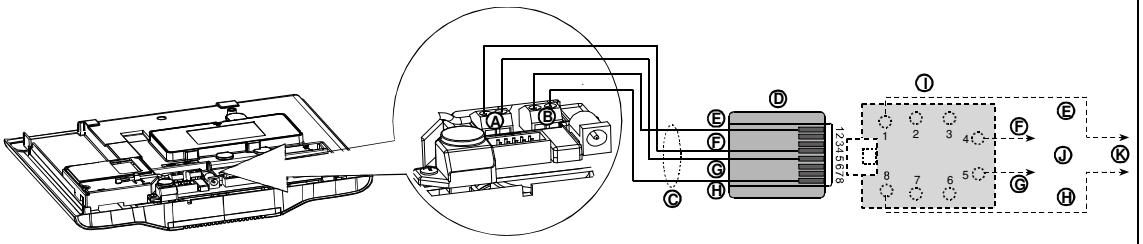
Connect the telephone cable to the SET connector and connect the telephone line cable to the LINE connector (through the desired wiring cable entry).

Note: *The telephone cable should be no longer than 3 meters.*



A. LINE
B. SET
C. Tel line wall jack

PHONE WIRING IN NORTH AMERICA



A. LINE
B. SET
C. RJ-31X cord
D. 8-position RJ-31X plug
E. Brown
F. Red
G. Green
H. Gray
I. RJ-31X jack
J. Line from street
K. House phones

Figure 3.16 –Phone Wiring

Phone wiring in the UK: Line terminals must be connected to pins 2 and 5 of the wall jack.

For all installations: If DSL service is present on the phone line, you must route the phone line through a DSL filter (refer to MESSAGE TO THE INSTALLER on page 2 for further details).

2.3.5 System Planning & Programming

It pays to plan ahead - use the tables in appendices A and B at the end of this guide to register the intended location of each detector, the holder and assignment of each transmitter.

Gather up all transmitters and detectors used in the system and mark each one in accordance with your deployment plan.

Program the system now as instructed in the programming section.

2.3.6 GSM Module Installation

Fasten the GSM module as shown in Figure 3.17.

A. GSM

B. Front unit

Caution! Do not install or remove the GSM module when the system is powered by AC power or backup battery.

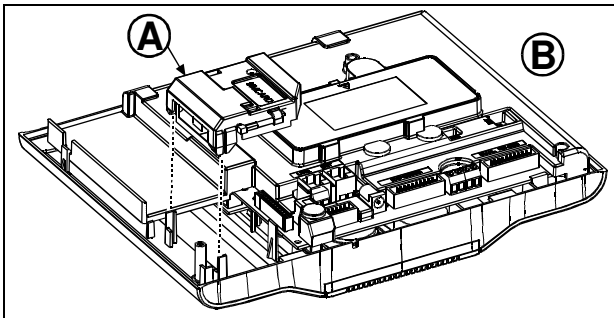


Figure 3.17 –Optional GSM Module Mounting

Inserting the SIM card into the GSM module (see Figure 3.18).

1. Slide top cover.
2. Open cover
3. Align SIM card in cover (note cover orientation)
4. Slide SIM card into cover
5. Rotate cover to close
6. Lock cover to close

IMPORTANT! Do not insert or remove SIM card when the control panel is powered by AC power or battery.

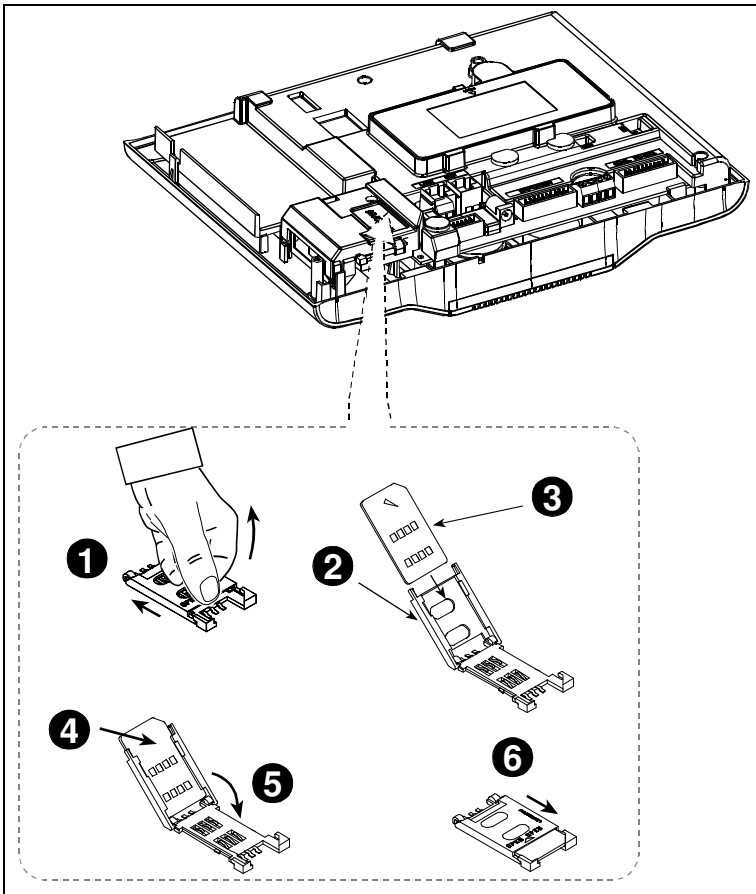


Figure 3.18 – SIM Card Insertion

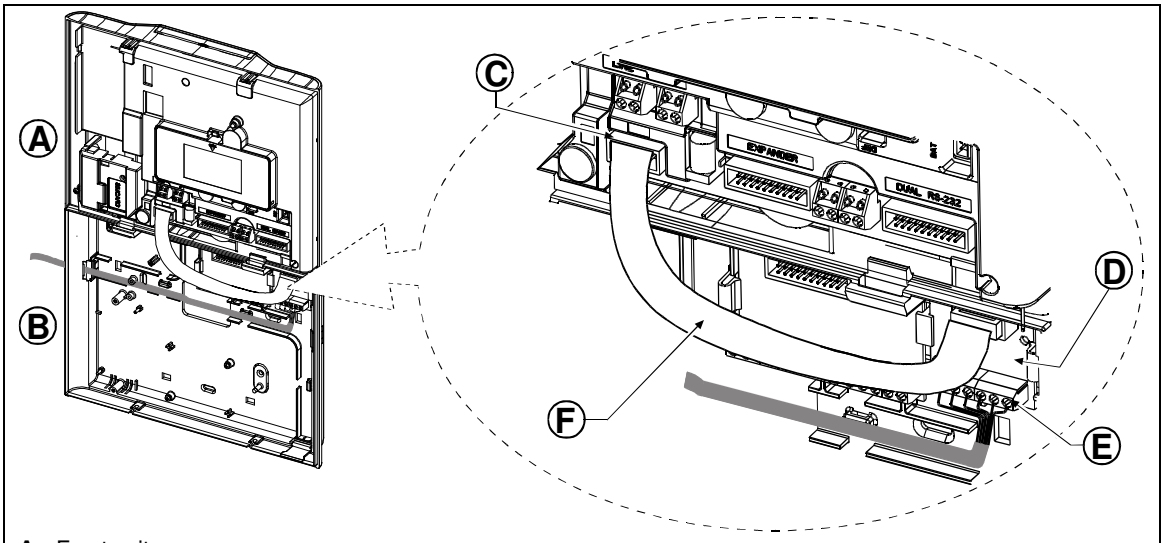
2.3.7 PGM-5 Installation

PGM-5 is an output interface module designed to provide alarm, trouble events and status signals to external devices such as long range wireless monitoring transmitters, CCTV systems, home-automation systems and LED annunciation panels (for further details see the PGM-5 Installation Instructions).

The PGM-5 provides 5 solid state relay contact outputs and is designed to be used as a plug-in internal add-on module with the PowerMaster-30 control panel.

Note: *The PGM-5 will be active only if the PGM-5 option was enabled in the factory default of the control panel.*

Caution! When mounting the PGM-5 module it is strongly recommended to route the cable as shown in Figure 3.18 to prevent interference which may occur if routed too close to the control panel antennas.



A. Front unit
B. Back unit
C. PowerMaster-30 connector
D. PGM-5 Module
E. Wiring
F. Flat cable

Figure 3.18 – PGM-5 Module Mounting

2.3.8 DUAL RS-232 Optional Module Mounting

The DUAL RS-232 is a Module that enables connection of any two simultaneous devices, such as Local PC programming or GSM Module.

The GSM unit enables the PowerMaster-30 system to operate over a cellular network (for details regarding the GSM modem features and connections, refer to the GSM Modem installation instructions).

1. To install the DUAL RS-232 module into the control panel, press it into the marked location (see Figure 3.19) until a click is heard.
2. Connect a local PC or GSM module, to one of the DUAL RS-232 module connectors, as shown in Figure 3.19.

A. DUAL RS-232 Module
B. Connector for PC
C. Connector for GSM or PC
D. Back unit

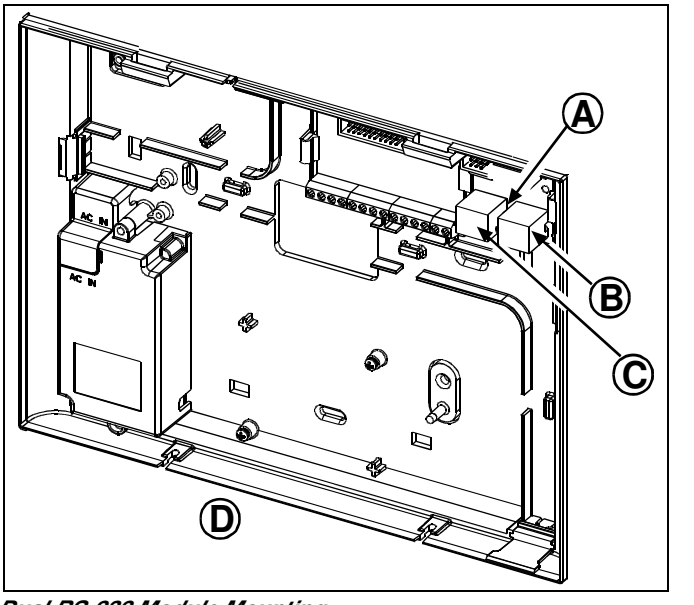


Figure 3.19 –Dual RS-232 Module Mounting

2.3.9 Optional Expander Module Mounting

The Expander module enables connection of speech box, site external siren, site internal siren or strobe and connection of wired detector to zone number 29 and 30*.

The Expander module also enables connection of a desired device to PGM (programmable) output that is activated according to predefined conditions.
Mount the Expander module as shown in Figure 3.20.

1. Press downward on the Expander module (located in the back panel) between its 2 clips.
2. Connect the Expander module flat cable to the front panel Expander receptacle.

Caution! The receptacle with strain relief clip is for the front unit – do not connect it to the e back unit!

A. 2 clips

B. Strain relief clip

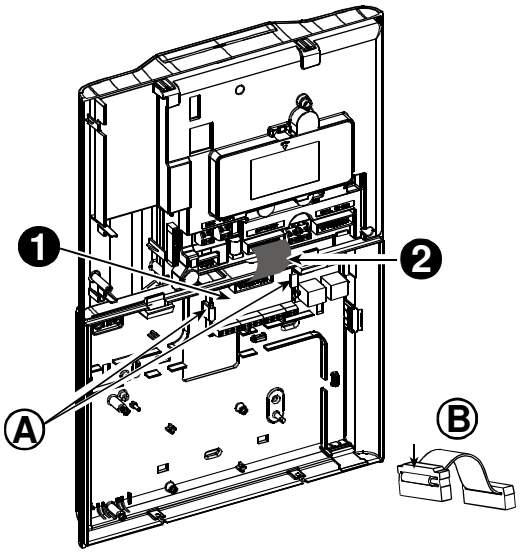
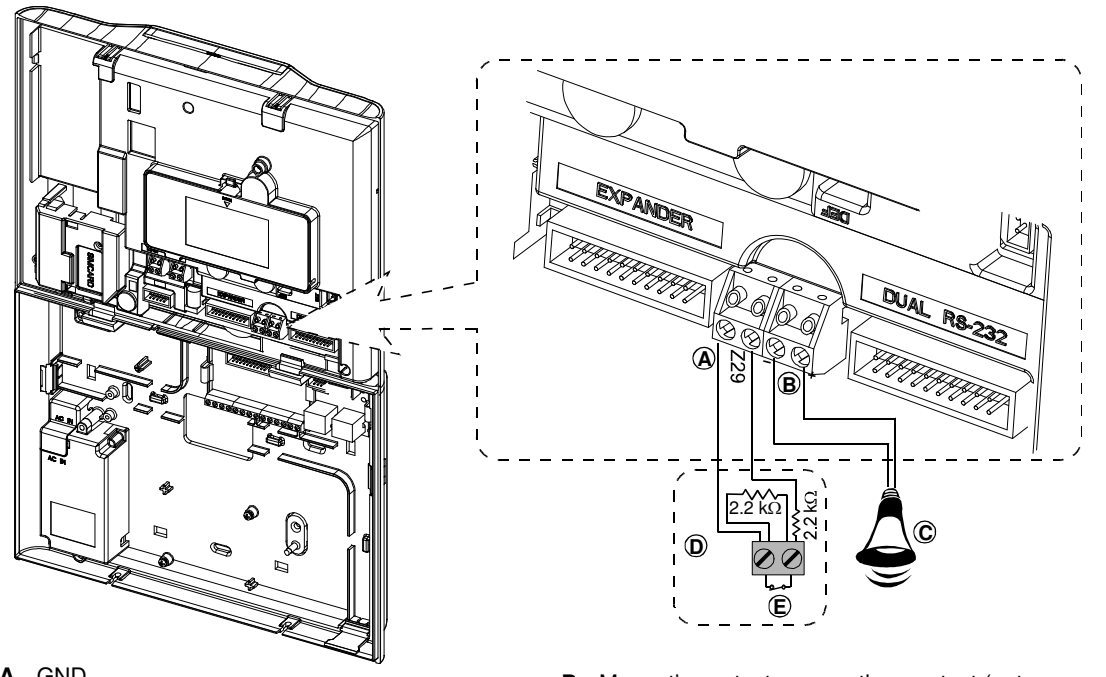


Figure 3.20 –Expander Module Mounting

* Wired zones 29 and 30 can be enrolled in any two zones in the PowerMaster-30 control panel from 01 to 64

ZONE 29* &SIREN WIRING

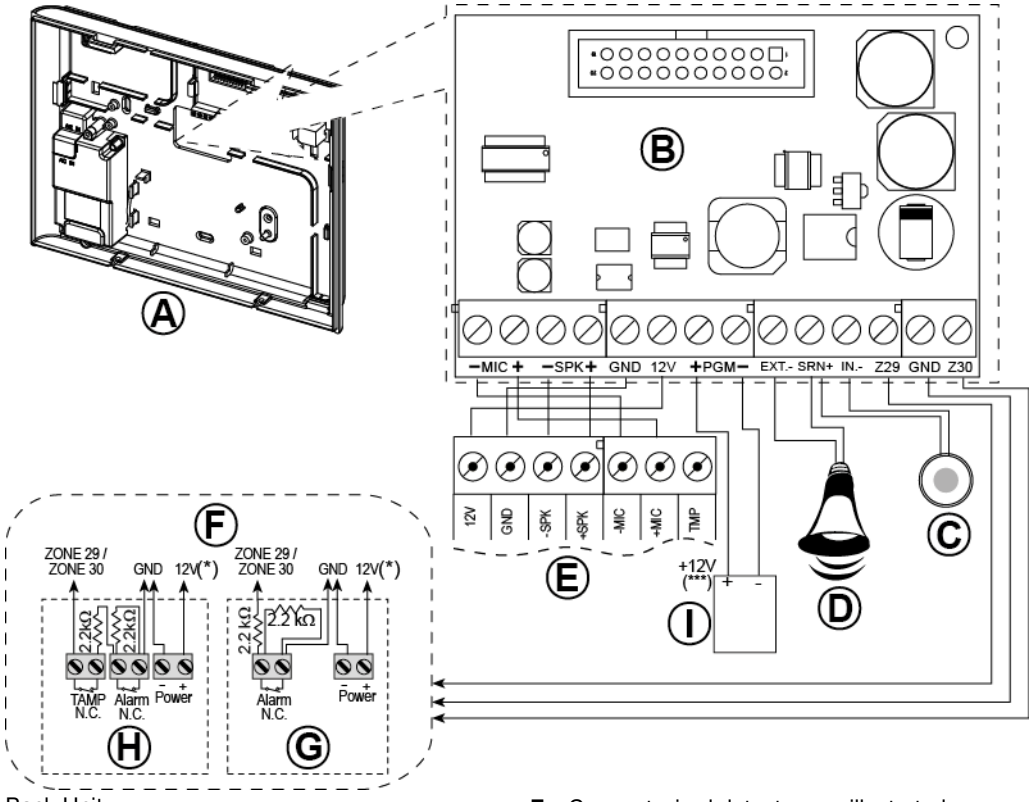


A. GND
B. Siren
C. Site external siren MG electronics MG441PDS or similar 6-12VDC, 150 mA Max
D. Magnetic contact or any other contact (not a detector)
E. Alarm N.C.

Figure 3.21 – Zone 29* and Siren Wiring

* Wired zones 29 and 30 can be enrolled in any two zones in the PowerMaster-30 control panel from 01 to 64

OPTIONAL EXPANDER MODULE, ZONES, SIRENS, AUDIO BOX AND WIRED DETECTORS WIRING



A. Back Unit

B. Expander

Note: *The Expander module is an optional module. If this optional module is not used, a small 4-terminal strip is used instead (2 terminals for zone 29* and 2 terminals for the siren)*

C. Site internal siren or strobe 6-12 VDC, 150 mA Max.

D. Site external siren MG441PDS or similar siren 12 VDC (nominal) 350 mA Max.

E. Voice box

F. Connect wired detectors as illustrated.

Note: *Regarding zones 29 & 30*, the control panel "sees" a specific resistance according to the event, as follows:*

Normal *(no alarm and no tamper): 2.2 kΩ*

Alarm event: *4.4 kΩ*

Tamper event: *Infinite resistance*

G. Detector without tamper switch

H. Detector with tamper switch

I. PGM device

Figure 3.22 – Zone 29* and Siren Wiring

Notes for EXPANDER module wiring:

* *Zone 29*/GND and Zone 30*/GND terminals can be connected to a normally closed contact of a detector, switch (for example a Tamper switch of any device), or a pushbutton, via a 2.2 KΩ resistor.* ***The 12V terminal can be used to supply 12V*** *(up to 36mA) to a detector (if necessary).*

** *The EXT terminal can be used to trigger an external siren.*

The INT terminal can be programmed for an "internal siren" or "strobe" (see DEFINE OUTPUTS - DEFINE INT/STRB in par. 3.7).

The 12V and "GND" terminals can be connected to a siren (for constant DC power supply).

*** *The.12V supply to the PGM device is fused. Current is limited to 100 mA.*

WARNING! *When plugging terminals back into place, be sure to align them carefully with the pins on the PCB. Misaligned or reverse insertion of terminals may damage internal PowerMaster-30 circuits!*

IMPORTANT! The terminals for internal and external sirens are DC outputs intended for 12V sirens. Connecting a loudspeaker to any of these outputs will cause a short circuit and will damage the unit.

* Wired zones 29 and 30 can be enrolled in any two zones in the PowerMaster-30 control panel from 01 to 64

2.3.10 Connecting AC Power to the Control Panel

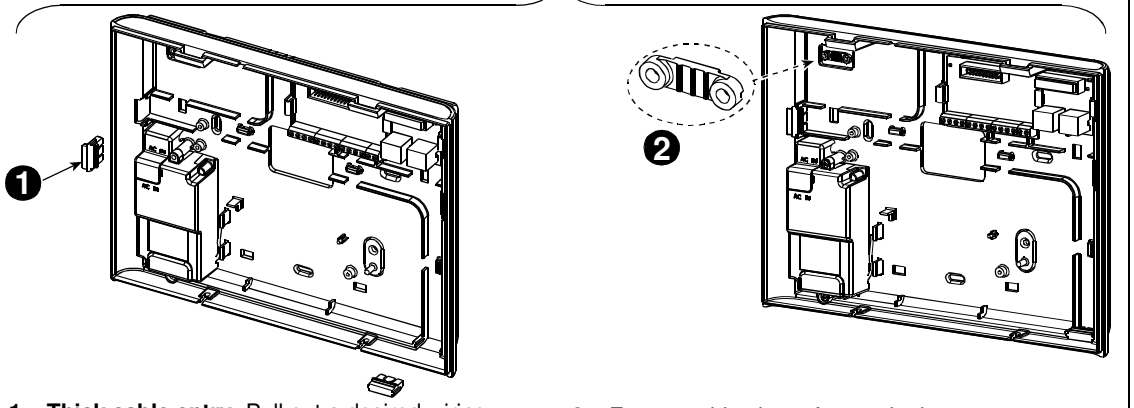
WARNING! *DO NOT USE AN OUTLET CONTROLLED BY A WALL SWITCH.*

Note: *This equipment should be installed in accordance with Chapter 2 of the National Fire Alarm Code, ANSI/NFPA 72, (National Fire Protection Association).*

Connect the power cable and close the control panel as shown in Figure 3.23. The socket outlet shall be installed near the equipment and shall be easily accessible.

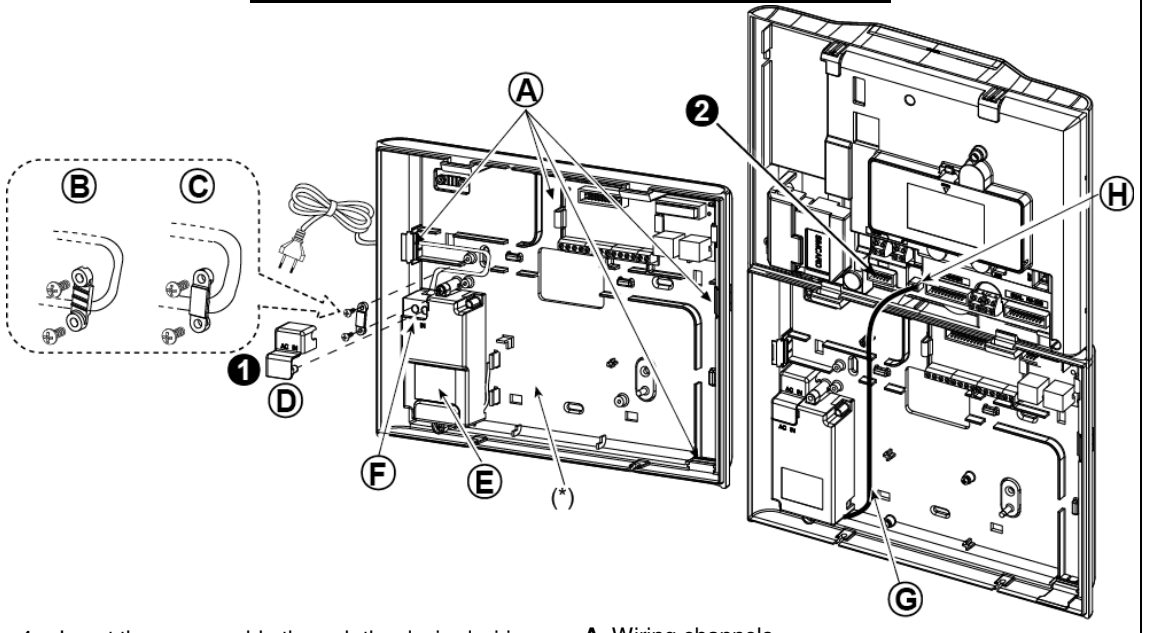
POWER CABLE CLAMP EXTRACTION

PERFORM STEPS 1 & 2 ON A WORKBENCH BEFORE THE MOUNTING



1. **Thick cable entry:** Pull out a desired wiring plastic cap (1 of 4).
2. Extract cable clamp for use in the next step.

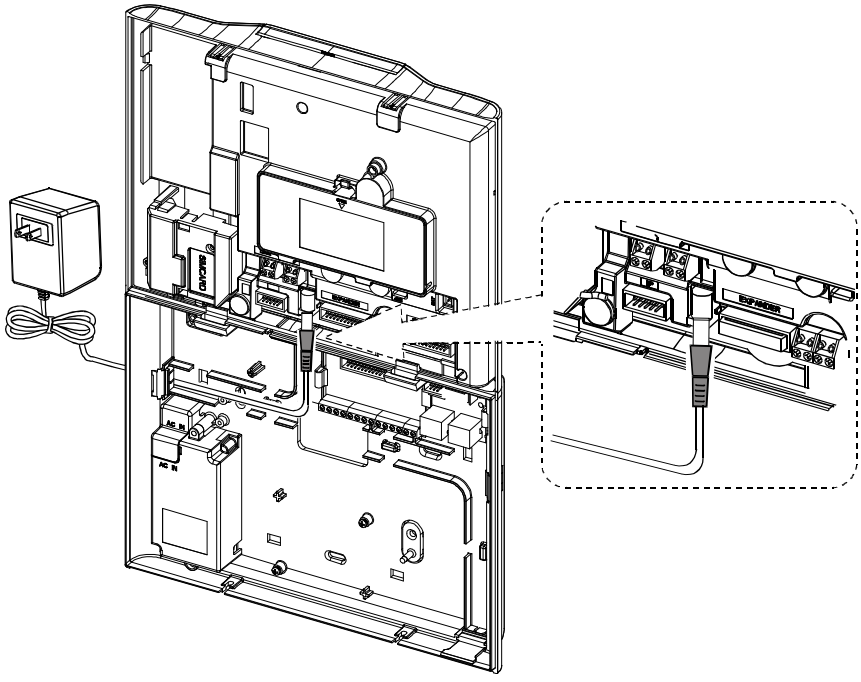
POWER CONNECTION FOR ALL COUNTRIES EXCEPT USA



1. Insert the power cable through the desired wiring channel (A). Route it to the power supply unit (E) and connect its 2 wires to the power supply terminal block (F) with a screwdriver. Fasten the screws tightly. Verify that the wires are properly fastened! Fasten the power cable by its clamp (B or C) and close the safety cover (D).
2. Connect the power supply output cable (G) to the power connector (H) in the front panel.

A. Wiring channels
B. For thin cable
C. For thick cable (reversed clamp)
D. Safety cover
E. Power supply unit
F. Power supply terminal block
G. Power supply output cable
H. Power connector
(*) Do not route wiring in this area, to enable proper closure of the control panel.

POWER CONNECTION FOR USA ONLY



Connect the power adaptor to the front panel power connector.

Figure 3.23 – Power Cable Connection

2.4 Annual System Check

Note: *The PowerMaster-10 / PowerMaster-30 system must be checked by a qualified technician at least once every three (3) years (preferably every year).*

The annual system check is designed to ensure proper operation of the alarm system by- performing the following checks:

- Periodic test
- Arm/disarm function
- No trouble messages are displayed on control panel
- The clock displays the correct time
- Reporting: generating an event to be transmitted to the Monitoring Station and to the user.

3. PROGRAMMING

3.1 General Guidance

This chapter explains the Installer programming (configuration) options of your PowerMaster-10 / PowerMaster-30 system and how to customize its operation to your particular needs and end user requirements.

The PowerMaster-30 includes a partition* feature. Partitioning allows you to have up to three independently controllable areas with different user codes assigned to each partition. A partition can be armed or disarmed regardless of the status of the other partitions within the system.

Tech Tip :
For your convenience, we recommend programming the PowerMaster-10 / PowerMaster-30 on the work bench before actual installation. Operating power may be obtained from the backup battery or from the AC power supply.

3.1.1 Navigation

The keypad's buttons are used for navigation and configuration when programming. The following table provides a detailed description of the function or use of each button.

Button	Definition	Navigation / Setting Function
▶▶	NEXT	Use to **move** / **scroll forward** to the next menu options.
◀	BACK	Use to **move** / **scroll backward** to the previous menu options.
i OK	OK	Use to **select a menu option** or to **confirm a setting or action**.
⌂	HOME	Use to **move one level up** in the menu or to **return to previous setting step**.
🔒	AWAY	Use to **jump back** to the [<OK> TO EXIT] screen to quit programming.
🔓	OFF	Use to **cancel, delete, clear or erase** setting, data, etc.
0 - 9		Numerical keypad used to enter numerical data when needed.

To review the options within the control panel menus and select an option, repeatedly press the Next ▶▶ or Back ◀ button until the desired option is displayed (designated as ▶▶ in this guide), then press the OK i OK button to select the desired option (also designated as OK in this guide). To return to the previous options repeatedly press the Home ⌂ button and to exit the programming menu press the Away 🔒 button.

To simplify the procedure further, you really need two basic buttons to program the entire panel: The Next ▶▶ and the OK i OK button. The ▶▶ button scrolls through the options, and the i OK button selects the option you want.

If you can remember that, you know how to program the panel. It's as easy as that.

3.1.2 Feedback Sounds

The sounds you will hear while using and configuring the control panel are:

Sound	Definition
♩	Single beep, heard whenever a key is pressed
♩ ♩	Double beep, indicates automatic return to the normal operating mode (by timeout).
♩ ♩ ♩	Three beeps, indicates a trouble event
♫☺	**Happy Tune** (- - - ——), indicates successful completion of an operation.
♫☹	**Sad Tune** (———), indicates a wrong move or rejection

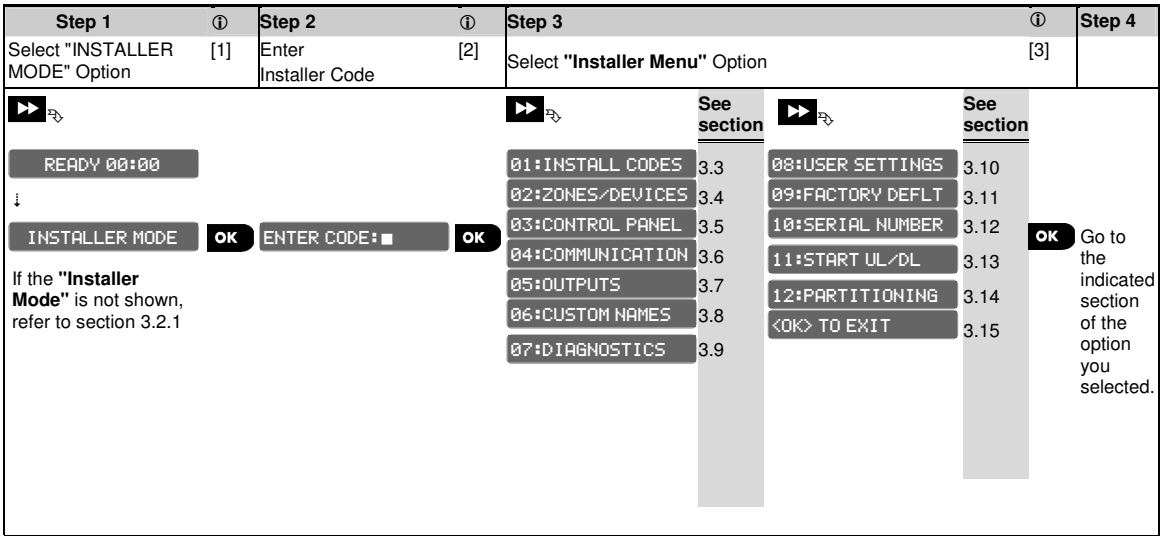
* Refers to PowerMaster-30 only

You can control the volume level of the sounded beeps by pressing the 1 button on the keypad to increase the volume of the beeps heard, or by pressing the 4 button to decrease the volume of the beeps heard.

3.2 Entering the "Installer Mode" and Selecting a Menu Option

All installer menu options are accessed via the **"Installer Mode"** which is usually one of the main panel menu options.

To enter the **"Installer Mode"** and select an Installer Menu Option proceed as follows:



ⓘ	ⓘ *- Entering the "Installer Mode" menu*
[1]	You can access the "**Installer Mode"** only when the system is disarmed. The process described refers to the case where **"User permit"** is not required. If **"User permit"** is required, select the **"User Settings"** option and ask the Master User to enter his code and then scroll the "user Settings menu and select the "**Installer Mode"** option (last option in the menu). Continue to Step 2.
[2]	If you have not already changed your Installer code number, use the default settings: 8888 for installer & 9999 for master installer.
[3]	You have now entered the **"Installer Menu".** Scroll and select the option you wish and continue to its corresponding section in the guide (indicated on the right side of each option).
	Detailed Installer Menu Map *A detailed map of the Installer Menu is provided in APPENDIX B. Detailed Installer Menu Map.*

3.2.1 Entering the "Installer Mode" via "User Permit"

In certain countries the regulations may require **user permission** to make changes in the configuration of the panel. To comply with these regulations, the **"Installer Mode"** option can be accesses only via the **"User Settings"** menu. The Master user must first enter the **"User Settings"** menu then scroll until the **"Installer Mode"** option is shown and then the installer can continue as shown in the above table (see also ⓘ [1] in Step 1 above).

To configure the panel to comply with the **user permission** requirement - see option #91 **"User Permit"** in section 3.5.8.

3.3 Setting Installer Codes

The PowerMaster-10 / PowerMaster-30 system provides two installer permission levels with separate installer codes, as follows:

- **Master Installer:** The "Master Installer" is authorized to access all Installer Menu and sub-menu options. The default code is: 9999 (*).
- **Installer:** The "Installer" is authorized to access most but not all Installer Menu and sub-menu options. The default code is 8888 (*).
- **Guard Code:** Enables an authorized guard to only Arm Away / Disarm the control panel. The default code is 0000 (*).

The following actions can be performed only by using the **Master Installer code**:

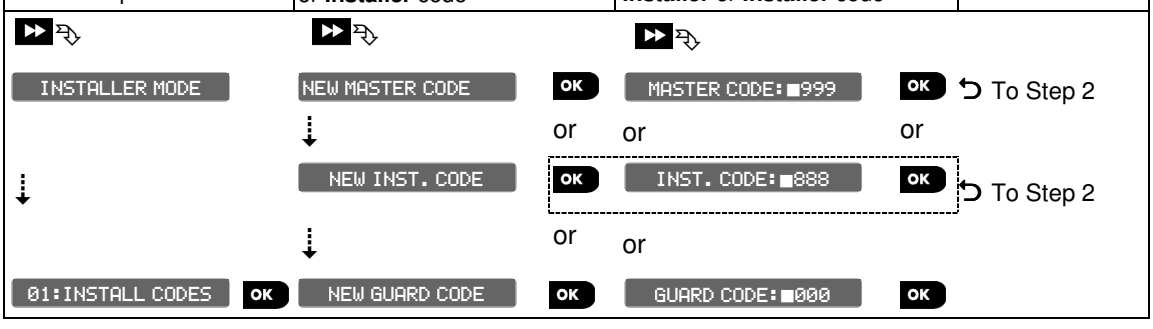
- Changing the Master Installer code.
- Defining specific communication parameters - see `3:C.S.REPORTING` in sections 3.6.1 and 3.6.4.
- Resetting the PowerMaster-10 / PowerMaster-30 parameters to the default parameters – see `01.FACTORY DEFLT` in section 3.11.

Note: Not every system includes a **Master Installer code** feature. In such systems, the **Installer** can access all Installer Menu and sub-menu options the same as a Master Installer.

(*) You are expected to use the default codes only once for gaining initial access, and replace it with a secret code known only to yourself.

To change your Master Installer or Installer Codes proceed as follows:

Step 1	ⓘ	Step 2	ⓘ	Step 3	ⓘ	Step 4
Select "01:INSTALL CODES" Option	[1]	Select **Master Installer** or **Installer** code	[2]	Enter NEW **Master Installer** or **Installer** code	[3]	



ⓘ	ⓘ – *Setting Installer Codes*
[1]	Enter the **Installer Menu** and select the **"01:INSTALL CODES"** option (see section 3.2).
[2]	Select the **"NEW MASTER CODE"**, **"NEW INST. CODE"** or **"NEW GUARD CODE"**. Some panels may have only the Installer Code and New Guard Code option.
[3]	Enter the new 4-digit Code at the position of the blinking cursor and then press OK.

Notes:

1. *Code "0000" is not valid for Master Installer. It is recommended NOT to use it also for the Installer.*
2. ***Warning! Always use different codes for the Master Installer, for the Installer and for the Users.***
   - ***A.*** *If the Master Installer Code is identical to the Installer code, the panel will not be able to recognize the Master Installer. In such a case you must change the Installer code to a different code. This will re-validate the Master Installer code.*
   - ***B.*** *If a User code is identical to the Master Installer or Installer codes, the system will no longer be able to recognize the Installer code. In such a case, you must enter the "User Settings" menu and change the User code to a different code. This will re-validate the Installer code.*

3.3.1 Identical Installer and Master Installer Codes

In a 2-installer code system, the non-master installer may inadvertently change his Installer Code to that of the Master Installer Code. In this case, the panel will allow the change in order to prevent the non-master installer from realizing the discovery of the Master Installer's Code. The next time the Master Installer enters the Installer Mode the Master Installer will be considered as an Installer and not as a Master Installer. In such a case the Master Installer should use one of the following solutions:

(a) Access the panel using the Remote Programmer PC software application and change the Master Installer Code to a different code than the one programmed by the Installer.

(b) i) Change the Installer Code to a temporary code, ii) exit the Installer Mode, iii) enter the Installer Mode again using the Master Installer code (the Master Installer Code will now be accepted), iv) change the Master Installer code to a different code, v) and change the NON-Master Installer Code back again (in other words, undo the change to the temporary code) so that the NON-Master Installer can still enter the system.

It is also possible that a user inadvertently changes his User Code to the same code as that of the Installer Code or Master Installer Code. In this case, the installer will not be able to enter the Installer Mode. The installer should perform the same procedures as described above to solve this situation.

3.4 Zones / Devices

3.4.1 General Guidance & Zones/Devices Menu Options

The ZONES / DEVICES menu enable you to add new devices to the system, to configure them and to delete them if required.

To select an option follow the instructions below. Additional details and guidance are provided in section 3.2.

INSTALLER MODE ⇨ 02:ZONES/DEVICES ⇨ OPTION you wish ⇨ Means scroll ▶▶ and select OK

Option	Use	Section
ADD NEW DEVICES	Use to **enroll** and **configure** the device's operation according to your preference and in case of sensors to also define their zone name (location), zone type and chime operation.	3.4.2
DELETE DEVICES	Use to **delete** devices from the system and to reset their configuration.	3.4.3
MODIFY DEVICES	Use to **review** and/or **change** the device's configuration.	3.4.4
REPLACE DEVICES	Use to **replace** faulty devices with automatic configuration of the new device.	3.4.5
DEFINE DEFAULTS	Use to **customize** the defaults of the device's parameters according to your personal preferences for each new device enrolled in the system.	3.4.6

3.4.2 Adding (Enrolling) New Wireless Devices or Wired Sensors

One of the outstanding features of the PowerG network is that all devices can be configured from the PowerMaster-10 / PowerMaster-30 panel (or even from a remote location). It is no longer necessary to travel to the installation site, or to climb ladders and open devices just for changing the PIR sensitivity or any other function or parameter. The PowerG devices can be also enrolled remotely using the Device ID number attached to each device.

Similar to WiFi technology, PowerG arrives in several protocol variants (example: different frequencies). The exact variant of PowerG protocol employed by the device is listed on the back of every PowerG device. The PowerG variant name appears in the format: FFF-M:DDD, where FFF is the frequency band and M:DDD is the "flavor" within that frequency band. PowerG devices will not work with panels of a different variant (different frequency band or different flavor), and the panel's display will indicate an incompatible device (see the ***Adding New Devices*** table below for the possible fault displays) if you try to enroll a device where the device's PowerG variant differs from that which the panel understands. However, PowerG panels can understand and work with multiple flavors of PowerG protocol simultaneously as long as these flavors are within the same frequency band. For example, Panels with flavor FFF-M:ANY can work with devices of any DDD value, on condition that the device's FFF and M values match that of the panel.

A. The Device ID number and Enrollment Procedures

Device ID Number

Each device in the PowerMaster system bears a 7-digit ID Number printed on the sticker attached to the device, for example 300-2963. The first 3 digits of this ID number (i.e. "300"), are the Type number which identify the exact type or model of the device (in this case a keyfob model KF-234 PG2) while the other 4 digits are a short encrypted ID number used by the system to identify the specific keyfob in the system. The following list provides the Type numbers of several of the devices used with the PowerMaster system.

Device	Device Model	Type Number
Door/Window Contact	MC 302 PG2	100
PIR Motion sensor	NEXT PG2	120
PIR Camera	Next-CAM PG2	140
Smoke detector	SMD-426 PG2	200
Keyfob	KF-234 PG2	300
Sensors connected to wired inputs of the panel		050

Using Device ID Registration for Remote Device Enrollment

The ID number is only a short identifier and does not contain the full identification information of the device. It is used to register the devices into the panel using the system keypads or from remote locations using a PC and the Remote Programmer PC software. Following the registration, the PowerMaster panel waits for the registered devices to appear in the network in order to complete the enrollment. When a registered device is later added to the system, the user or installer activates the device in a search mode (see "**Pre-Enrollment**" procedure below) causing the device to search for the panel. When the panel identifies a searching device registered in the panel, the panel then completes the enrollment session by exchanging with the device their full identification information, the security encryption keys and network parameters.

The PowerMaster-10 / PowerMaster-30 provides you with two alternative methods to enroll a new device into the system:

Full Enrollment

The full enrollment is a simple procedure that can be performed either on site or off site. Using an Installer Code, the panel is set to the Enrollment mode (i.e. "Add New Device" option) and when the panel is ready, you simply need to enroll the device using the Enroll Button on the device and the "Enrollment Procedure" as described in detail in the instructions below. During enrollment the panel and the device exchange their full identification information, security encryption keys and network parameters.

Pre-Enrollment (by ID Registration)

The Pre-Enrollment is a 2 stage procedure. In the 1st stage you register the devices' ID numbers into the panel and completes the device configuration using the system keypads or from remote location using the Remote Programmer PC software. In the 2nd stage, when a registered device is added to the system you simply need to enroll the device using the Enroll Button on the device and the "Enrollment Procedure" exactly as you do with the full enrollment but with the panel operation in the normal mode (i.e. no need to enter the Installer Mode). The panel then completes the enrollment procedure exactly as in the Full-Enrollment. This may be very useful for adding devices to existing systems without the need to provide technicians with the Installer Code or allow access to the programming menus.

Remember!. If the 2nd stage of the pre-enrolment is not completed, the system will indicate a "NOT NET" trouble (i.e. a registered device is " not networked") until the 2nd stage of all registered devices is completed or until such devices have been deleted.

B. Enrolling Devices

Tech Tip : Before beginning, gather all the devices that you intend to enroll and make sure they all have batteries installed.

Enrollment Procedure

Refer to the device information in the device Installation Instructions, open the device and identify the **Enroll Button**. For keyfobs and keypads use the **AUX** '✱' button. For gas detectors **insert the battery**.

Full-Enrollment Procedure (Enroll Now)

Press the Enroll button for 2-5 seconds until the LED turns ON and then release the button. The LED will extinguish or may blink for few more seconds until the enrollment is completed. If enrollment is successfully completed, the PowerMaster-10 / PowerMaster-30 sounds the "Happy Tune" and the LCD momentarily shows DEVICE ENROLLED and then reads the device details – see Step 3 in the chart below.

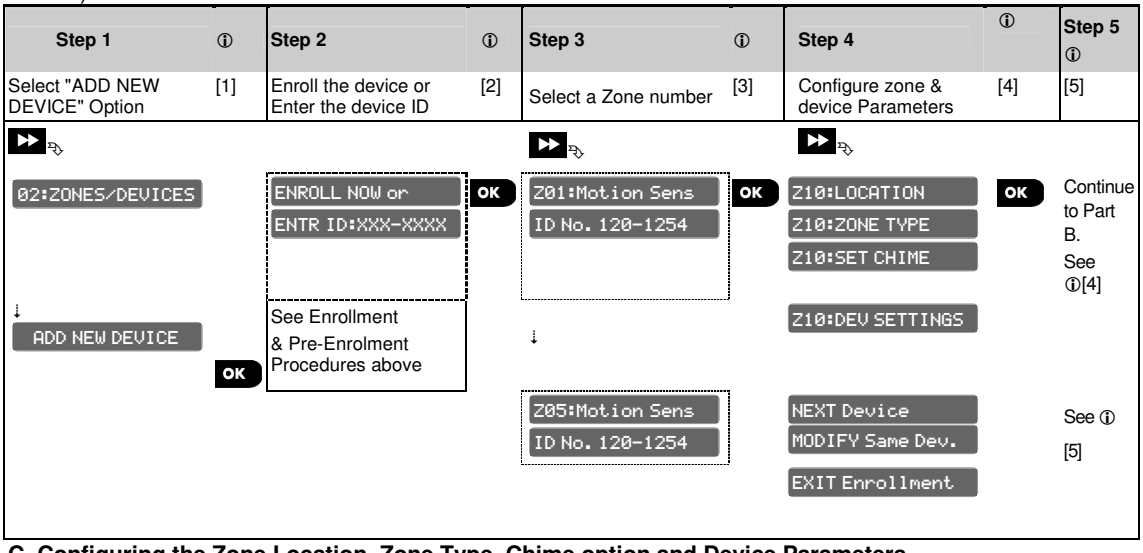
Pre-Enrollment Procedure (Enter ID.)

Enter the 7-digit ID number printed on the sticker attached to the device and press ⓘ I OK to confirm. To enroll a **wired sensor** into the wired zone use ID: 050-0001 or 050-0002.

ⓘ

1. *A **Wired sensor** is enrolled to the wired zone input using the **Pre-Enrollment** procedure and ID number 050-0001/050-0002.*
2. *Keyfob enrolling can be performed also by the user (via USER SETTINGS menu).*
3. *Wireless detectors can be enrolled in zones 01-30 (PowerMaster-10) / 01-64 (PowerMaster-30).*
4. *Because of the high security encryption used, PowerG devices (including Keyfobs) cannot be used on more than one system.*
5. *Wired magnetic contact or any other contact can be enrolled in any one zone in PowerMaster-10 and any two zones in PowerMaster-30.*
6. *Carefully read the "Additional Information" ⓘ for each step according to the indicated step references ⓘ[1] etc. – see table at end of this section.*

To enroll and configure a device, follow the instructions in the following chart (carefully read the "Additional Information" ⓘ for each step according to the indicated step references ⓘ[1] etc. – see table at end of this section):

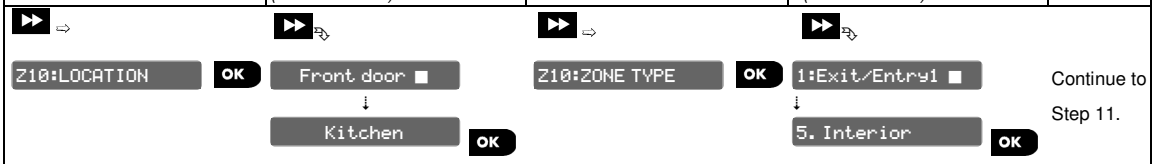


C. Configuring the Zone Location, Zone Type, Chime option and Device Parameters

ⓘ

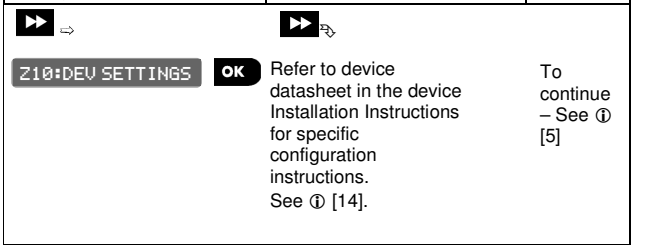
1. *A list of factory defaults is printed in APPENDIX G. Default and Programmed Zone Definitions. You may fill out the blank columns even before you start and proceed to program according to your own list.*
2. *Steps 6 to 12 are applicable to sensors only.*

Step 6	ⓘ	Step 7	ⓘ	Step 8	ⓘ	Step 9	ⓘ	Step 10
Enter Location Menu	[6]	Select Location *(see list below)*	[7]	Enter Zone Type	[8]	Select Zone Type *(see list below)*	[9]	



Step 11	ⓘ	Step 12	ⓘ	Step 13	ⓘ	Step 14	ⓘ	Step 15
Enter Chime Menu	[11]	Select Chime option	[12]	Enter Partitions* Menu	[13]	Select Partition options	[14]	

Step 16	ⓘ	Step 17	ⓘ	Step 18
Enter Device Settings Menu	[16]	Configure Device Parameters	[17]	Continue or End



Location List

No.	Location Name	No.	Location Name	No.	Location Name	No.	Location Name
01	Attic	09	Dining room	17	Hall	25	Utility room
02	Back door	10	Downstairs	18	Kitchen	26	Yard
03	Basement	11	Emergency	19	Laundry room	27	Custom 1
04	Bathroom	12	Fire	20	Living room	28	Custom 2
05	Bedroom	13	Front Door	21	Master bath	29	Custom 3
06	Child room	14	Garage	22	Master bedroom	30	Custom 4
07	Closet	15	Garage door	23	Office	31	Custom 5
08	Den	16	Guest room	24	Upstairs		

Zone Type List

No.	Zone Type	Description
01	Exit / Entry 1	Used for Door/Window Contacts and Motion sensors protecting your entrance door to the house. Provides you enough time to exit the premise after you arm the system and to enter the premises and disarm the system before the alarm goes off. For configuring the Exit and Entry 1 delays, see sections 3.5.1 & 3.5.2 - Installer menu 03.CONTROL PANEL options 01 and 03. (*)

* Refers to PowerMaster-30 only

02	Exit / Entry 2	Same as Exit / Entry 1 but allows to define a different entry delay. Used sometimes for entrances closer to the panel. For configuring the Exit and Entry 2 delays, see sections 3.5.1 & 3.5.2 - Installer menu 03.CONTROL PANEL options 02 and 03. (*)
03	Home Delay	Used for Door/Window Contacts and Motion sensors protecting entrance doors to interior living areas where you wish to move feely when the system is armed HOME. Functions as a "Delayed" zone when the system is armed HOME and as a "Perimeter Follower" zone when the system is armed AWAY.
04	Interior-Follower	Used for Door/Window Contacts and Motion sensors protecting the route between the entrance door and the control panel. This zone is temporarily ignored by the alarm system during entry/exit delay periods, otherwise provides instant alarm. (*)
05	Interior	Used for Door/Window Contacts, Motion and glass-break sensors installed in interior areas that need to be protected only when the system is armed AWAY but not protected when the system is armed HOME. When tripped provides instant alarm.
06	Perimeter	Used for all type of sensors protecting the perimeter of the premises when the system is armed both AWAY and HOME. When tripped provides instant alarm.
07	Perimeter - Follower	Used for all type of sensors protecting the perimeter of the premises but temporarily ignored by the alarm system during entry/exit delay periods, otherwise provides instant alarm. (*)
08	24hr Silent	Used to report alarm events from sensors (or manually activated buttons) to the monitoring station or private telephones (as programmed) without activating the sirens. Active 24 hours.
09	24hr Audible	Used to report alarm events from sensors (or manually activated button) to the monitoring stations or private telephones (as programmed) and also providing an audible siren alarm. Active 24 hours.
10	Emergency	Used for pendants and other emergency sensors and activators to initiate an **Emergency call** to the monitoring stations or private telephones (as programmed).
11	Arming Key	An Arming key is a zone that can be used for arming and disarming the system by a wired PowerG detector or by a magnetic contact PowerG device that is enrolled to a zone. In addition, the alarm system may be armed / disarmed by a keyswitch when connected to wired zones.
12	Non-Alarm	Used for non-alarm applications. For instance sensors or activators used for Chime only, remote control, home automation etc. Not valid for PIR cameras.
17	Guard Key box	A Guard Key zone is a 24H Zone. Since the Guard Key box is a hardwired unit, the installation is done with a wired PowerG detector that is located inside the wall, where the Guard Key box is installed.

(*) *These Zone Types are useful mainly when you arm and disarm the system from inside the protected premises. If you arm and disarm the system from outside (without tripping any sensor), such as using a keyfob, it is preferred to use the other Zone Types.*

ⓘ ***ⓘ - Adding New Devices***

[1] Enter the **Installer Menu**, select the **"02.ZONES/DEVICES"** option (see section 3.2) and then select the **"ADD NEW DEVICE"** option.

Device Enrollment

[2] If enrollment is successful the display reads "**DEVICE ENROLLED**" (or **"ID accepted**") and then shows the device details - see [3]. However, if the enrollment fails, the display will advise you the reason for failure for example: "**ALREADY ENROLLED**", **"UNKNOWN DEVICE", "WRONG ID No."** or **"NO FREE LOCATION".**

[3] The display shows the device details and the first available free Zone number for example: **"Z01:Motion Sensor > ID No. 120-1254"** (*or* "K01:Keyfob / S01:Siren etc. depending on the type of the enrolled device).

If you wish to assign the device to another zone number, for example, "Zone 05", click the ▶▶ button until the display reads **"Z05:Motion Sens"**, or type in the zone number using the control panel keypad, and then press ⓘ I OK to confirm.

[4] Select the configuration option you wish i.e. **Location**, **Zone Type**, **Set Chime** and **Device Parameters** (Settings) and continue to part B to configure the device. At the end of each of the 4 configuration options, the wizard will bring you automatically to the next configuration option.

You can also **review** the configuration of all parameters one by one by pressing repeatedly the ⓘ I OK button.

[5] After completing the configuration of the device the wizard brings you to the **"Next Step"** menu with the following 3 options:

NEXT Device Brings you back to Step 2 to enroll the next device.

MODIFY Same Dev. Returns you back to the beginning of Step 4 (i.e. "**Location**") to make further changes in the device, if needed.

EXIT Enrollment Exits the enrollment procedure and returning to Step 1 bringing you back to the "**Zones / Devices**" menu.

Location (name) setting:

[6] If you wish to review or change the **Location** (name) setting, press the ⓘ I OK button, otherwise scroll to the next option.

[7] When entering the Location menu, the display shows the default **Location** (*) or if changed, the presently selected **Location** (marked with ■). If you wish to change the Location name, scroll in the location menu and select the name you wish (for example, Living room, Kitchen etc.). – see "**Location List**" above. The list contains 26 fixed location names plus 5 custom names that can be defined using the 06.CUSTOM NAMES option in the Installer menu. See section 3.8.

Note: *A quick shortcut procedure may be used by keying the 2 digit serial No. of the **Location** shown in the Location List above, which takes you directly to the corresponding location name.*

(*) A list of factory default locations per each zone is provided in APPENDIX E. Event Codes.

Zone Type setting:

[8] If you wish to review or change the **Zone Type** setting, press the ⓘ I OK button, otherwise scroll to the next option.

[9] The zone type determines how the system handles alarms and other signals sent from the device. Upon enrollment of a new sensor you must select a suitable zone type. The list of available **Zone Types** and the explanation for each zone type is provided above.

When entering the menu, the display shows the default (*) or the previously selected **Zone Type** (marked with ■). If you wish to change the Zone Type, scroll the Zone Type menu and select the Zone Type you wish (for example, Exit/Entry 1, Interior etc.). – see table above.

Note: *A quick shortcut procedure may be used by keying the 2 digit serial No. of the **Zone Type** shown in the Zone Type List above, which takes you directly to the corresponding zone type.*

(*) A list of factory default Zone Types per each zone is provided in APPENDIX E. Event Codes.

Chime setting:

[11] All zones are set to **Chime OFF** by default. If you wish to configure the device to cause the panel to sound (when disarmed) a **Chime** melody when tripped, press the OK button, otherwise scroll to the next option.

[12] Select between **"Chime OFF"**, **"melody-chime"** and **"zone name-chime"***. In "melody chime" the control panel sounds a chime melody when the sensor is tripped. In "zone name-chime" the control panel sounds the zone name when the sensor is tripped. The chime operates during the Disarm mode only.

Partitions setting*:

Note: *The "PARTITIONS" menu appears only if Partitions is enabled in the control panel (see section 3.14).*

[13] When entering the menu, the display shows the default Partition selection (marked with ■).

[14] Use the keypad keys 1, 2, 3 to change the status of the partitions P1, P2 & P3, respectively.

Device Configuration:

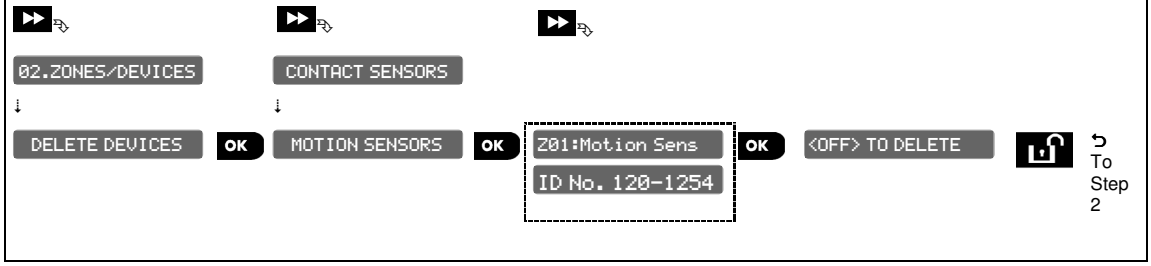
[16] If you wish to review or change the **Device Configuration (settings)**, press the OK button, otherwise scroll to the next option – see ⓘ [5].

[17] Each device has its own specific set of parameters that may be configured according to your preference. The details of each device parameters are provided in their datasheet. The defaults of the device parameters can be also configured as explained in section 3.4.6. To configure the device, refer to its corresponding device datasheet in the device Installation Instructions.

3.4.3 Deleting a Device

To delete a device proceed as follows:

Step 1	ⓘ	Step 2	ⓘ	Step 3	ⓘ	Step 4	ⓘ	Step 5
Select "DELETE DEVICES" Option	[1]	Select the respective device Group	[2]	Select exact device you wish to delete	[3]	To delete the device: press the key	[4]	



* Refers to PowerMaster-30 only

ⓘ	ⓘ *– Deleting a Device*
[1]	Enter the **Installer Menu**, select the "02.ZONES/DEVICES" option (see section 3.2) and then select the "DELETE DEVICES" option.
[2]	Select the respective Group of the device you wish to delete i.e. "CONTACT SENSORS", "MOTION SENSORS", "GLASSBREAK SENS.", "SMOKE SENSORS", "CO SENSORS", "GAS SENSORS", "FLOOD SENSORS", "TEMPERATURE SENS", "WIRED SENSORS", "TAGS(Proximity)", "KEYFOBS", "KEYPADS", "SIRENS" and "REPEATERS". For example, "MOTION SENSORS".
[3]	Scroll the Device Group, identify (by zone and/or ID number) the exact device you wish to replace, for example: "Z01: Motion Sensor > ID No. 120-1254" and press the ⓘ OK button.
[4]	The display prompts you <OFF> TO DELETE. To delete the device, press the (OFF) button.

3.4.4 Modifying or Reviewing a Device

To **Modify** or **Review** the device parameters proceed as follows:

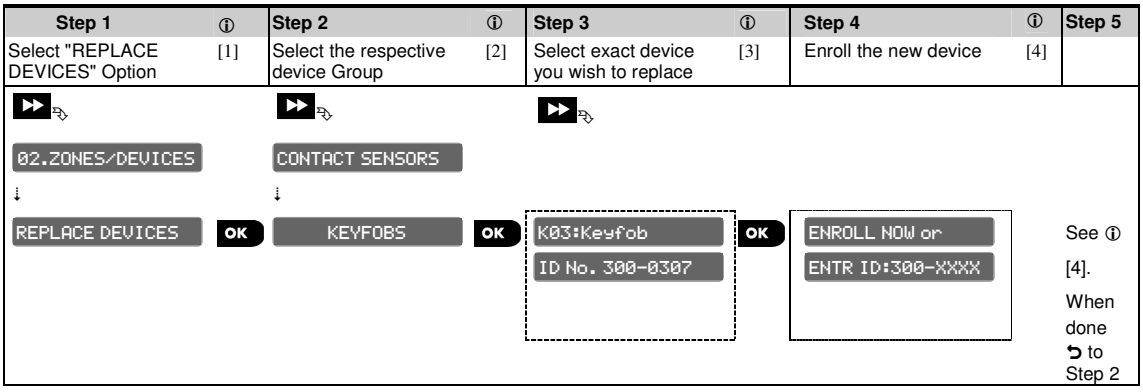
Step 1	ⓘ	Step 2	ⓘ	Step 3	ⓘ	Step 4	ⓘ	Step 5
Select "MODIFY DEVICES" Option	[1]	Select the respective device Group	[2]	Select exact device you wish to modify	[3]	Select the Parameter you wish to modify	[4]	Modify the Parameter
▶▶ 02.ZONES/DEVICES ↓ MODIFY DEVICES	OK	▶▶ CONTACT SENSORS ↓ MOTION SENSORS	OK	▶▶ Z10:Motion Camra ID No. 140-1737	OK	▶▶ Z10:LOCATION Z10:ZONE TYPE Z10:SET CHIME Z10:DEV SETTINGS	OK	See ⓘ [4] When done ↩ to Step 3

ⓘ	ⓘ *– Modifying or Reviewing a Device*
[1]	Enter the **Installer Menu**, select the "02.ZONES/DEVICES" option (see section 3.2) and then select the "MODIFY DEVICES" option.
[2]	Select the respective Group of the device you wish to review or modify i.e. "CONTACT SENSORS", "MOTION SENSORS", "GLASSBREAK SENS.", "SMOKE SENSORS", "CO SENSORS", "GAS SENSORS", "FLOOD SENSORS", "TEMPERATURE SENS", "WIRED SENSORS", "KEYFOBS", "KEYPADS" and "SIRENS". For example, "MOTION SENSORS".
[3]	Scroll the Device Group, identify (by zone and/or ID number) of the exact device you wish to modify or review, for example: "Z10: Motion Camera > ID No. 140-1737".
[4]	From here on the process is same as the configuration process that follows the enrollment of that device. To continue, refer to Section 3.4.2 "Adding a New Wireless Device" Part B Step 6. When done, the display will show the next device of the same type (i.e. "Motion camera").

3.4.5 Replacing a Device

Use this option to replace a faulty device that is enrolled in the system with another device of the same Type number (i.e. same first 3 digit of the ID number – see section 3.4.2.A) while keeping the same configuration of the original device. There is no need to delete the faulty device or to reconfigure the new device. Once enrolled, the new device will be configured automatically to the same configuration of the faulty (replaced) device.

To **Replace** a device proceed as follows:



ⓘ	ⓘ *– Replacing a Device*
[1]	Enter the **Installer Menu**, select the "02.ZONES/DEVICES" option (see section 3.2) and then select the "REPLACE DEVICES" option.
[2]	Select the respective Group of the device you wish to replace i.e. "CONTACT SENSORS", "MOTION SENSORS", "GLASSBREAK SENS.", "SMOKE SENSORS", "CO SENSORS", "GAS SENSORS", "FLOOD SENSORS", "TEMPERATURE SENS", "TAGS(Proximity)", "KEYFOBS", "KEYPADS", "SIRENS" and "REPEATERS" etc. For example, "KEYFOBS".
[3]	Scroll the Device Group , identify (by zone and/or ID number) of the exact device you wish to replace, for example: "K03: Keyfob > ID No. 300-0307".
[4]	From here on the process is the same as the enrollment process of a new device. To continue, refer to Section 3.4.2 "Adding a Wireless Device" Part A Step 2. If you try enrolling a new device of a different type than the replaced device, the PowerMaster-10 / PowerMaster-30 will reject the new device and the display will read WRONG DEV.TYPE. When done, the display will show the next device of the same type (i.e. "Keyfob").

3.4.6 Defining Configuration Defaults for "Device Settings"

During the enrollment procedure each new device is configured with **Default Parameters** that define its functionality behavior such as "alarm LED (on or off), sensitivity (High or Low) etc. As shown in section 3.4.2, these parameters can be modified (customized) during the enrollment process, or later on as explained in section 3.4.4.

For maximum convenience and time saving the PowerMaster-10 / PowerMaster-30 enables you to define the **Default Parameters** used during enrollment and to change them whenever you wish so that new devices enrolled into the system will be configured automatically with the default parameters you want without the need to modify the configuration of each new enrolled device. You can use a certain set of defaults for certain group of devices and then change the defaults for another group.

IMPORTANT! Devices that were already enrolled in the PowerMaster-10 / PowerMaster-30 system before the defaults have been changed will not be affected by the new default settings.

To **Define** the Default parameters of a device Group proceed as follows:

Step 1	ⓘ	Step 2	ⓘ	Step 3	ⓘ	Step 4	ⓘ	Step 5 ⓘ
Select "DEFINE DEFAULTS" Option	[1]	Select the respective device Group	[2]	Select the Default Parameter	[3]	Select the new Default Setting	[4]	[5]
⏩		⏩		⏩		⏩		
02.ZONES/DEVICES		CONTACT SENSORS						
↓		↓						
DEFINE DEFAULTS	OK	MOTION SENSORS	OK	Alarm LED				See ⓘ [5]
				Event Counter	OK	Low Sensitive ■		
				Disarm Activity		High Sensitive	OK	When done ⮌ to Step 3
				↓				

ⓘ	ⓘ *– Changing Defaults*
[1]	Enter the **Installer Menu**, select the "02.ZONES/DEVICES" option (see section 3.2) and then select the "DEFINE DEFAULTS" option.
[2]	Select the respective Group of the device you wish to define its defaults i.e. "CONTACT SENSORS", "MOTION SENSORS", "SMOKE SENSORS", "TEMPERATURE SENS", "KEYFOBS", "KEYPADS" and "SIRENS". For example, "MOTION SENSORS".
[3]	Scroll the parameter list of the Device Group and select the Default Parameter you wish to change, for example: "Event Counter". The list combines the parameters of all devices in the group, for example, the parameters of all types of Motion sensors.
[4]	In the example, the existing default setting of the "Event Counter" for enrolled motion sensors was "Low Sensitivity" (marked with ■) . To change to it "**High Sensitivity**", scroll the menu until the display shows "High Sensitivity" and press the ⓘ OK button. The new default for the Event Counter parameter setting of Motion Sensors enrolled from now on will be "**High Sensitivity**".
[5]	The new default does not affect motions sensors that were already enrolled before the change was made but only new motion sensors that will be enrolled in the PowerMaster-10 / PowerMaster-30 after the change is performed.

3.4.7 Downloading Configuration Settings into Devices via Radio

When exiting the **"Installer mode"** the PowerMaster-10 / PowerMaster-30 panel communicates with all devices in the system and updates them with the changes that have been performed in their "Device Settings" configuration.

During the updating period the displays indicates DEV UPDATING 018 wherein the number (for example, 018) is a countdown of the remaining number of devices yet to be updated (for example, 18 devices in the displayed screen).

3.5 Control Panel

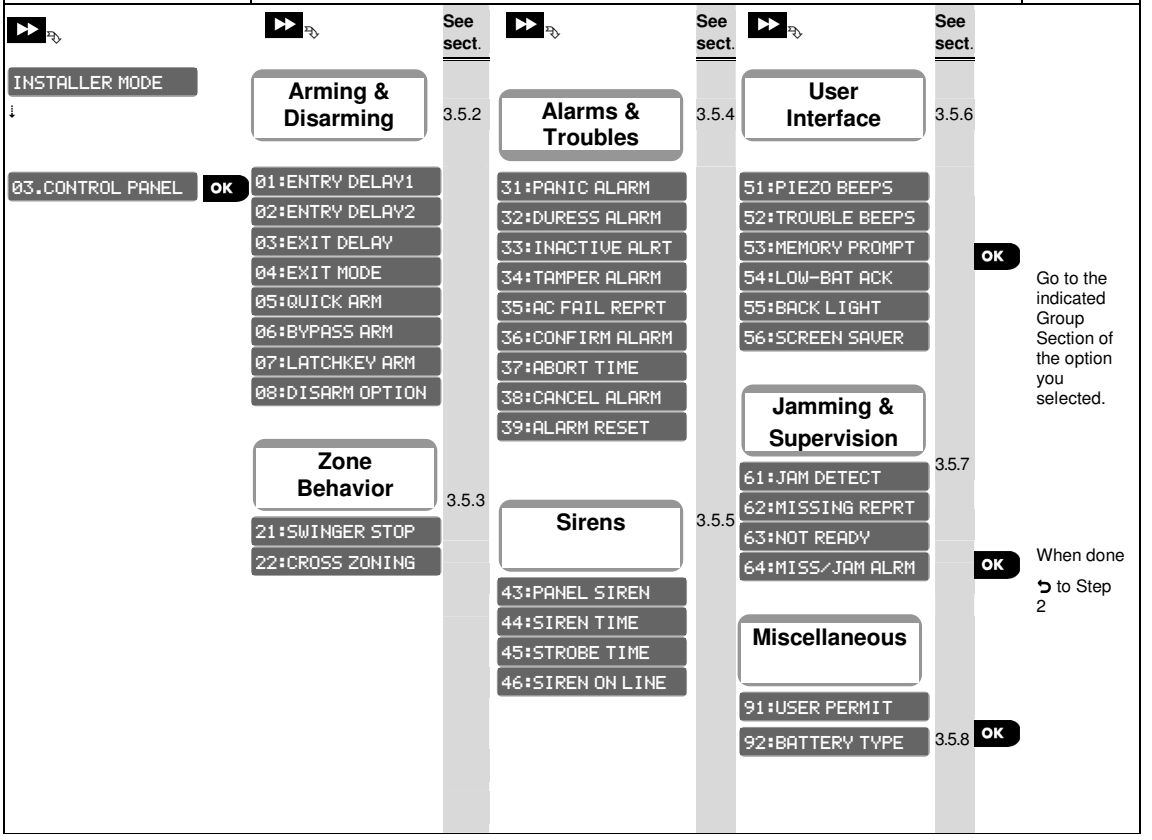
3.5.1 General Guidance – "Control Panel" Flow-Chart & Menu Options

The CONTROL PANEL menu enables you to configure and customize the operation of the control panel according to your personal preferences. The CONTROL PANEL menu provides you with variety of configurable features and parameters divided into several Groups, each dealing with certain aspects of the system operations as follows (see detailed list in Step-2 of the chart below):

Group	Description of Group Features and Parameters	Section
Arming & Disarming	Contains configurable features and parameters related to Arming and Disarming of the system and the Exit and Entry procedures.	3.5.2
Zone Behavior	Contains configurable features and parameters related to the functionality of the Zones.	3.5.3
Alarms & Troubles	Contains configurable features and parameters related to initiating, canceling and reporting of Alarm and Trouble events**.**	3.5.4
Sirens	Contains configurable features and parameters common to all sirens in the system.	3.5.5
User Interface	Contains configurable features and parameters related to the functionality of the panel's audible and visual indications.	3.5.6
Jamming & Supervision	Contains configurable features and parameters related to detecting and reporting of RF Jamming and device Supervision (missing device) events.	3.5.7
Miscellaneous	Contains a variety of other configurable features and parameters related to the system.	3.5.8

To enter the `03.CONTROL PANEL` menu and to select and configure an option, proceed as follows:

Step 1		**Step 2**		**Step 3**
Select "CONTROL PANEL" option	[1]	Select the **"Control Panel"** Parameter you wish to configure	[2]	Configure the option [3]



ⓘ	ⓘ *– Entering the "Control Panel" Menu*
	To Select an Option:
[1]	Enter the "**Installer Menu**" and select the "03.CONTROL PANEL" option (see section 3.2).
[2]	Identify the option you wish to configure and then scroll and select that option, for example: "45: STROBE TIME" in the **"Sirens"** group.
	Note: *A quick shortcut procedure may be used by keying the 2 digit serial No. of the **Option** indicated in the option screen as shown in the chart, for example "46" for "46:SIREN ON LINE", which brings you directly to that option*
[3]	To continue, refer to the section indicated in Step 2 for the Group Section of the selected option, for example section 3.5.5 for the "Sirens" group, and look for the option you wish to configure (for example, "46:SIREN ON LINE"). After configuring the selected parameter the display returns to step 2.
	To Change the Configuration of the Selected Option: When entering the selected option, the display shows the default (or the previously selected) setting marked with (■). If you wish to change the configuration, scroll ▶▶ the "Option settings" menu and select the setting you desire and press OK to confirm. When done the display brings you back to Step 2.

3.5.2 Configuring Arming/Disarming and Exit/Entry Procedures

The following table provides you with a detailed description of each option and its configuration settings. To select an option and change its configuration – refer to section 3.5.1.

Option	Configuration Instructions
01:ENTRY DELAY1 02:ENTRY DELAY2	Two different entry delays allow the user to enter the protected site (while the system is in the armed state) via dedicated exit/entry doors and routes without causing an alarm. Following entry, the user must disarm the control panel before the entry delay expires. Slow-rate warning beeps start sounding once the door is opened, until the last 10 seconds of the delay, during which the beeping rate increases. The **"Entry Delay 1"** and **"Entry Delay 2"** options allow you to program the time length of these delays. Option settings: **00 seconds**; **15 seconds** (default for entry delay 2); **30 seconds** (default for entry delay 1); **45 seconds**; **60 seconds**; **3 minutes** and **4 minutes**. ***Notes:*** *To comply with **UL** requirements, the entry delay must not exceed 15 sec.* *To comply with **CP-01** requirements, "00s" and "15s" delays must not be used.* *To comply with **EN** requirements, the entry delay must not exceed 45 sec.*
03:EXIT DELAY	An exit delay allows the user to arm the system and leave the protected site via specific routes and exit/entry doors without causing an alarm. Slow-rate warning beeps start sounding once the arming command has been given, until the last 10 seconds of the delay, during which the beeping rate increases. The **"Exit Delay"** option allows programming of time length of the exit delay. Option settings: **30 seconds**; **60 seconds** (default); **90 seconds**; **120 seconds, 3 minutes** and **4 minutes.** ***Notes:*** *To comply with **UL** requirements, the exit delay must not exceed 120 sec.* *To comply with **CP-01** requirements, the "30s" delay must not be used.*
04:EXIT MODE	The "Exit Delay" time can be further adjusted according to your preferred exit route. PowerMaster-10 provides you with the following **"Exit Mode"** options:

A: "normal" - The exit delay is exactly as defined.

B: "restart>reentry" - The exit delay restarts when the door is reopened during exit delay. The restart occurs once only. Restarting the exit delay is helpful if the user re-enters immediately after going out to retrieve an item that he left behind.

C: "end by exit" - The exit delay expires (ends) automatically when the exit door is closed even if the defined exit delay time was not completed.

Option settings: **normal** (default); **restart>reentry** and **end by exit.**

05:QUICK ARM

Define whether or not the user will be allowed to perform quick arming or not. Once quick arming is permitted, the control panel does not request a user code before it arms the system.

Option settings: **OFF** (default) and **ON** (default in USA).

06:BYPASS ARM

Define whether or not the user will be allowed to manually **Bypass** individual zones, or allow the system to perform automatic bypassing of open zones during the exit delay (i.e. **"force arm"**). If a zone is open and "**forced arming**" is not permitted, the system can not be armed and "NOT READY" is displayed. If "**no bypass**" is selected, neither manual bypassing nor force arming is allowed which means that all zones must be secured before arming.

Option settings: **no bypass** (default); **force arm** and **manual bypass** (default in USA).

Notes: *To comply with **EN** requirements, "manual bypass" or "force arm" must be selected.*

*The option "force arm" is not applicable in the **UK**.*

07:LATCHKEY ARM

Here you determine whether the system can be armed in the **"Latchkey"** mode. If the system is armed this way, a "latchkey" message will be reported by voice (PowerMaster-30) or SMS message to users (see note) upon disarming by a "latchkey user" (users 5-8 or keyfob transmitters 5-8 in PowerMaster-10 system / users 23-32 or keyfob transmitters 23-32 in PowerMaster-30 system). This mode is useful when parents at work want to be informed of a child's return from school.

Note: *To enable the reporting, you must configure the system to report "alrt" events to Private users (Latchkey belongs to the "alerts" group of events). Refer to section 3.6.4* REPORTED EVENTS *option in both "VOICE REPORT" & SMS REPORT" menus.*

Option settings: **OFF** (default) and **ON**.

08:DISARM OPTION

Certain regulations require that the when the system is armed in AWAY mode, it may not be disarmed from the outside of the house (such as by keyfobs) before entering the protected premises and activating an "Entry Delay" zone. To answer this requirement, the PowerMaster-10 / PowerMaster-30 provides you with the following configurable options to disarm the system:

A: At **"any time".**

B: During entry delay using keyfob devices only (**"on entry keyfob").**

C: During entry delay by code only using PowerMaster-10 / PowerMaster-30 panel keypad (**"on entry keypad"**).

D: During entry delay using keyfobs or by code using PowerMaster-10 / PowerMaster-30 panel keypad (**"on entry all"**).

	Option settings: **any time** (default); **on entry keyfob**; **on entry keypad** and **on entry all**.

3.5.3 Configuring Zones Functionality

The following table provides you with a detailed description of each option and its configuration settings. To select an option and change its configuration – refer to section 3.5.1.

Option	Configuration Instructions
21:SWINGER STOP	Here you determine the number of times a zone is allowed to initiate an alarm within a single arming/disarming period (including tamper & power failure events of detectors, etc.). If the number of alarms from a specific zone exceeds the programmed number, the control panel automatically bypasses the zone to prevent recurrent siren noise and nuisance reporting to the Monitoring Station. The zone will be reactivated upon disarming, or 48 hours after having been bypassed (if the system remains armed).
	Option settings: **after 1 alarm** (default); **after 2 alarms** (default in USA); **after 3 alarms** and **no stop**.
22:CROSS ZONING	Cross zoning is a method used to counteract false alarms - an alarm will be initiated only when two adjacent zones (zone couples) are violated within a 30-second time window. This feature is active only when the system is armed AWAY and only with respect to the following zone couples: 18+19, 20+21, 22+23, 24+25, 26+27 in PowerMaster-10 system / 40+41, 42+43, 44+45, 46+47, 48+49, 50+51, 52+53, 54+55, 56+57, 58+59, 60+61, 62+63 in PowerMaster-30 system. Here you determine whether cross zoning will be active or inactive.
	Option settings: **OFF** (default) and **ON**.
	Notes: *1. If one of the two crossed zones is bypassed (see Section 3.5.2), the remaining zone will function independently.* *2. It is recommended that crossed zones will be only zones used for detection of burglary i.e. "Zone Types": Entry/ Exit, Interior, Perimeter and Perimeter follower.* ***Important!*** *Do not define "cross zoning" to any other zone types such as Fire, Emergency, 24h audible, 24h silent etc.*

3.5.4 Configuring Alarms & Troubles

The following table provides you with a detailed description of each option and its configuration settings. To select an option and change its configuration – refer to section 3.5.1.

Option	Configuration Instructions
31:PANIC ALARM	Define whether or not the user will be allowed to initiate a Panic Alarm from keypads (by simultaneous pressing the two "Panic Buttons") or keyfobs (by simultaneous pressing the "Away" + "Home" buttons) and whether the alarm will be "silent" (i.e. only reporting of the event) or also audible (i.e. the sirens will also go off).
	Option settings: **audible** (default); **silent** and **disabled**.
32:DURESS ALARM	A duress (ambush) alarm message can be sent to the Monitoring Station if the user is forced to disarm the system under violence or menace. To initiate a duress message, the user must disarm the system using a duress code (2580 by default). Here you can change the duress code or enter "0000" to disable the duress feature.

To change the code, enter the new 4-digit of the new Duress code at the position of the blinking cursor or enter 0000 to disable the duress function and then press OK.

Notes: *1. The system does not allow programming a duress code identical to an existing user code.*

*2. Duress Code is not applicable in the **UK**.*

33:INACTIVE ALRT

Previously known as "NOT ACTIVE"

If no sensor detects movement in interior zones at least once within the defined time window, an **"inactive alert"** event is initiated.

Here you determine the **time window** for monitoring the **lack of motion**.

Option settings: **disabled** (default); **after**: **3 hours**; **after 6 hours**; **after 12 hours; after 24 hours**; **after 48 hours** and **after 72 hours.**

34:TAMPER ALARM

Previously known as "TAMPER OPTION"

Here you determine whether the Tamper switch protection of all zones and other peripheral devices (except the control panel) are Active or Not active.

Option settings: **active** (default) and **not active.**

Warning!*: If you select "not active", be aware that no alarm or report will be initiated in case of tampering with any of the system peripheral devices.*

35:AC FAIL REPRT

To avoid nuisance reporting in case of short interruptions in the house AC power, the system reports an AC Fail message only if the AC power does not resume within a pre-determined time delay. Here you determine the time delay between the occurrence of AC power failure and the reporting of the trouble event.

Option settings: **after 5 minute** (default)**, after 30 minute**, **after 60 minute** or **after 3 hours.**

Note: *To comply with **EN** requirements, the time delay must not exceed 60 min.*

36:CONFIRM ALARM

Previously known as "CONFIRM TIME"

If two successive alarm events occur within a specific time window, the system can be configured to report the second alarm event as a **"confirmed alarm"** (see section 3.6.4 option 61). Here you can activate this feature and set the respective time window.

Option settings: **disable** (default in USA); **in 30 minutes**; **in 45 minutes**; **in 60 minutes** (default); or **in 90 minutes**

37:ABORT TIME

The PowerMaster-10 / PowerMaster-30 can be configured to provide an “Abort Time” delay before initiating an alarm that starts upon detection of an event. If the user disarms the system within the selected abort time, the alarm is aborted (not applicable to alarms from FIRE, 24H SILENT and EMERGENCY zones). During this time delay, the buzzer sounds a warning beep but the siren remains inactive and the alarm is not reported. Here you can activate the feature and select the "Abort Time" interval.

Option settings: **in 00 seconds** (default in USA); **in 15 seconds**; **in 30 seconds** (default); **in 45 seconds**; **in 60 seconds**; **in 2 minutes**; **in 3 minutes** and **in 4 minutes.**

Note: *To comply with **UL** or **CP-01** requirements, the abort time must not exceed 45 sec.*

38:CANCEL ALARM

The PowerMaster-10 / PowerMaster-30 can be configured to provide a ”Cancel Alarm” time window that starts upon reporting an alarm to the Monitoring Station. If the user disarms the system within that "cancel alarm" time, a “cancel alarm” message is sent to

	the Monitoring Station indicating that the alarm was canceled by the user. Here you can activate the feature and select the "Cancel Alarm" time period.
Previously known as "ALARM CANCEL"	Option settings: **not active** (default in USA); **in 1 minute**, **in 5 minutes** (default); **in 15 minutes**; **in 60 minutes** and **in 4 hours**.
	Note: *To comply with **CP-01** requirements, "1 minute" option must not be used.*

39:ALARM RESET	Certain regulations (such as in the UK) require that following an alarm event the system cannot be rearmed before it is checked and reset by an installer (engineer). To answer this requirement, the PowerMaster-10 provides you with the following configurable options for resetting the alarm event and rearming the system: **A:** By the user as usual (**by user)**. **B:** By the engineer (installer) by entering and exiting the "Installer Mode" or by accessing the system remotely via the telephone using the Installer Code (**by engineer**). For accessing the system via the telephone, see the User's Guide, Chapter 5 – "Remote Control by Telephone" and use installer code instead of user code.
Previously known as "RESET OPTIONS"	Option settings: **by user** (default) and **by engineer**.
	Note: *This feature is not applicable in the USA.*

3.5.5 Configuring Sirens Functionality

The following table provides you with a detailed description of each option and its configuration settings. To select an option and change its configuration – refer to section 3.5.1.

Option	Configuration Instructions
43:PANEL SIREN Previously known as "PIEZO SIREN"	Determine whether the internal siren of the control panel will sound alarms (ON) or remain silent (OFF). Option settings: **ON** (default) and **OFF**.
44:SIREN TIME Previously known as "BELL TIME"	Here you can define the operating time the sirens will sound upon alarm. Once the "Siren Time" expires or the system is disarmed, the siren automatically shuts down. Option settings: **1 minute**; **3 minutes**; **4 minutes** (default)**; 8 minutes**; **10 minutes**; **15 minutes** and **20 minutes** ***Note:*** *To comply with **EN** requirements, the "Siren Time" must not exceed 15 minutes.*
45:STROBE TIME	Here you can define the length of time the strobe light will flash upon alarm. Option settings: **5 minutes**; **10 minutes**, **20 minutes** (default); **40 minutes** and **60 minutes**
46:SIREN ON LINE	Determine whether the siren will be activated or not when the telephone line fails when the system is armed. Option settings: **disable on fail** (default) or **enable on fail**.

3.5.6 Configuring Audible & Visual User Interface

The following table provides you with a detailed description of each option and its configuration settings. To select an option and change its configuration – refer to section 3.5.1.

Option	Configuration Instructions
51:PIEZO BEEPS With Partition disabled*	Here you determine whether the panel will sound the exit/entry warning beeps during exit and entry delays or not. An additional option is to mute the warning beeps only when the system is armed "HOME". Option settings: **ON** (default), **OFF when home** (default in USA) and **OFF**. ***Note:*** *When exit beeps are OFF, the happy (success) melody will still to sound toward the end of an exit delay.* *The volume level of the exit / entry beeps can be modified by pressing the* 1 *button on the keypad to increase the volume, or by pressing the* 4 *button to decrease the volume.*
51:PIEZO BEEPS With Partition enabled*	Here you determine whether the panel will sound the exit/entry warning beeps during exit and entry delays or not. An additional option is to mute the warning beeps only when the system is armed "HOME". The control panel's display is: Def:P1■ P2□ P3□ The pushbuttons 1, 2, and 3 provide selection of the corresponding partitions. Pressing each button repeatedly will toggle between each option. Option settings: ■ (enable beeps), **H** (OFF when home) and □ (disable beeps). ***Notes:*** *When exit beeps are OFF, the happy (success) melody will still to sound toward the end of an exit delay.* *The volume level of the exit / entry beeps can be modified by pressing the* 1 *button on the keypad to increase the volume, or by pressing the* 4 *button to decrease the volume.*
52:TROUBLE BEEPS	Under trouble conditions, the panel sounder emits a series of 3 short reminder beeps once per minute. Here you determine whether to enable or disable this reminder beeping or just disable it at night. The "night" hours are defined in the factory but are usually from 8 PM (20:00) until 7:00 AM. Option settings: **ON** (default in USA); **OFF at night** (default) and **OFF**.
53:MEMORY PROMPT	Define whether or not the user will receive "Memory" indication that an alarm has been activated. Option settings: **ON** (default) and **OFF**.
54:LOW-BAT ACK	Here you can activate or deactivate the "Low Battery Acknowledge" requirement from the user whose keyfob's battery is low. For further information see User's Guide Chapter 6. Option settings: **OFF** (default) – acknowledge not needed; **ON** – acknowledge required.
55:BACK LIGHT	Here you determine whether the panel's back lighting will remain on at all times or will turn on only when a key is pressed and turn off within 10 seconds if no further keystrokes are sensed. Option settings: **always ON** and **OFF after 10 sec** (default).
56:SCREEN SAVER With Partition disabled*	Certain regulations require that the system status display will not be exposed to unauthorized persons. The Screen Saver option (when activated) replaces the status display with "PowerMaster-10" / "PowerMaster-30" display if no key is pressed during more than 30 seconds.

* Refers to PowerMaster-30 only

Here you can activate the Screen Saver option and determine whether the status display will resume following any key press (**refresh by Key**) or by entering a code (**refresh by Code**). If **refresh by Key** is selected, the first pressing of any key (except Fire and Emergency) will produce the status display and the second press will perform the key function. Regarding the Fire and Emergency keys, the first key press will produce the status display and will also perform the Fire/Emergency function. For further information see User's Guide Chapter 1 "Screen Saver".

Option settings: **OFF** (default); **refresh by code** and **refresh by key**.

Note: *To comply with **EN** requirements, "refresh by code" must be selected.*

56:SCREEN SAVER

With Partition enabled*

Certain regulations require that the system status display will not be exposed to unauthorized persons. The Screen Saver option (when activated) replaces the status display with “PowerMaster-30” display if no key is pressed during more than 30 seconds.

Here you can activate the Screen Saver option and determine whether the status display will resume following any key press (**Text - by Key**) or by entering a code (**Text - by Code**). If **Text by Key** is selected, the first pressing of any key (except Fire and Emergency) will produce the status display and the second press will perform the key function. Regarding the Fire and Emergency keys, the first key press will produce the status display and will also perform the Fire/Emergency function.

You can also determine that if no key is pressed during more than 30 seconds the date and time will appear on the display. You can determine that normal display will return after pressing the  button followed by entering user code (**Clock - by Code**) or after pressing any key (**Clock - by Key**).

For further information see User's Guide Chapter 1 "Screen Saver".

Option settings: **OFF** (default); **Text - by code**; **Text - by Key**; **Clock - by Code**; **Clock - by Key**.

Note: *To comply with **EN** requirements, "refresh by code" must be selected.*

3.5.7 Configuring Jamming and Supervision (Missing device)

The following table provides you with a detailed description of each option and its Option settings. To select an option and change its setting (configuration) – refer to section 3.5.1.

Option	Configuration Instructions
61:JAM DETECT	Here you determine whether jamming (continuous interfering transmissions on the radio network) will be detected and reported or not. If any of the jam detection options is selected, the system will not allow arming under jamming conditions. The PowerMaster-10 / PowerMaster-30 provides several jam detect and reporting options to comply with the following standards:

Option	Standard	Detection and Reporting occurs when:
UL 20/20	USA	There is continuous 20 seconds of jamming
EN 30/60	Europe	There is an accumulated 30 seconds of jamming within 60 sec.
Class 6 (30/60)	British Standard	Like EN (30/60) but the event will be reported only if the jamming duration exceeds 5 minutes.
disabled	(default)	No jamming detection and reporting.

Notes:

*To comply with **UL** requirements, "UL 20/20" must be selected.*
*To comply with **EN** requirements, "EN 30/60" must be selected.*

*To comply with **UK** Class-6 requirements, " class 6 (30/60)" must be selected.*

* Refers to PowerMaster-30 only

62:MISSING REPRT Previously known as "SUPERVISION"	Here you determine the time window for reception of supervision (keep alive) signals from the various wireless peripheral devices. If any device does not report at least once within the selected time window, a “MISSING” alert is initiated. Option settings: **after 1 hour**; **after 2 hours**; **after 4 hours**; **after 8 hours**; **after 12 hours** (default) and **disabled**. ***Note:*** *To comply with **EN** requirements, 1 hour or 2 hours must be selected.*
63:NOT READY	Here you configure that in case of a supervision problem (i.e. a device is "missing" - see "62: MISSING REPRT") whether the system will continue to operate as **normal** or the system status will become "Not Ready" (**upon missing)** for as long as the "Missing" trouble exists. Option settings: **normal** (default) and **if missing dev.**.
64:MISS/JAM ALRM Previously known as "BELL/REP.OPT"	"EN standards" require that if a supervision (missing) or jamming trouble occurs during AWAY arming, the siren will go off and the event will be reported as a tamper event. Here you configure whether the system will behave according to **EN standards** or as **normal**. Option settings: **normal** (default) or **EN standard**. ***Note:*** *To comply with **EN** requirements "EN standard" must be selected.*

3.5.8 Configuring Miscellaneous Features

The following table provides you with a detailed description of each option and its configuration settings. To select an option and change its configuration – refer to section 3.5.1.

Option	Configuration Instructions
91:USER PERMIT	User Permission enables you to determine whether access to the INSTALLER MODE requires the user's permission or not. If you select **enabled**, the installer will be able to access the system only through the user menu after the user code has been entered (see section 3.2). Option settings: **disable** (default) or **enable** (default in UK). ***Note:*** *To comply with **EN** requirements, "Enable" must be selected.*
92:BATTERY TYPE	Here you determine which type of battery pack is used for the system to supply proper charge current. Option settings: **7.2V NiMH** (default) or **9.6V NiMH** (default in UK).

3.6 Communication

3.6.1 General Guidance – "Communication" Flow-Chart & Menu Options

The COMMUNICATION menu enables you to configure and customize the communication and reporting of alarm, troubles and other system events for monitoring companies or private users according to your local requirements and personal preferences. PowerMaster-10 / PowerMaster-30 offers a variety of communication means including telephone PSTN landline, Cellular GSM, GPRS or SMS and IP via broadband internet connection.

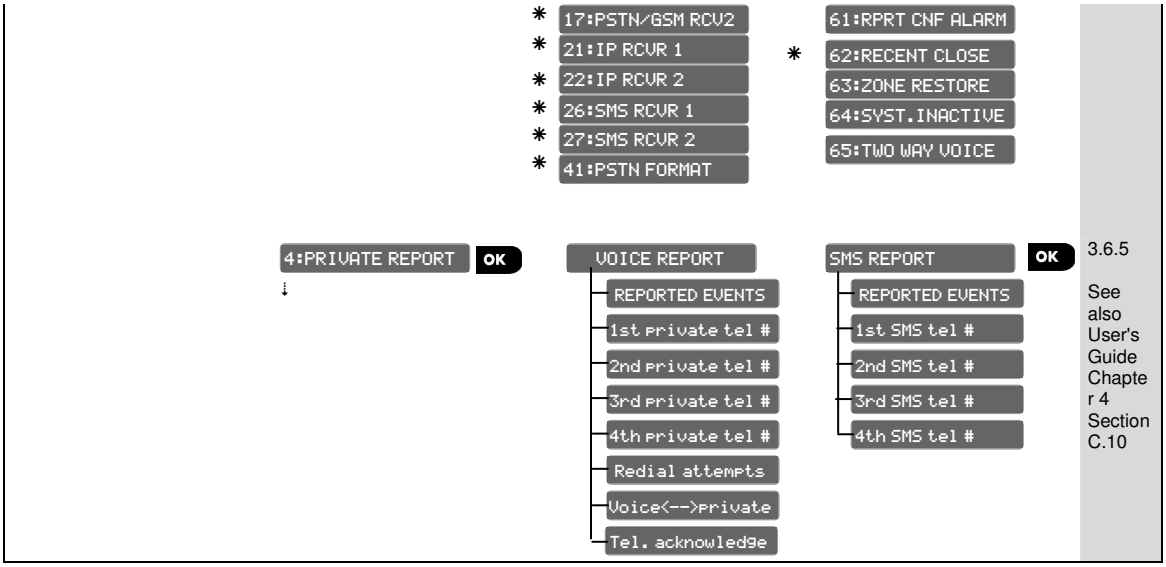
The 04.COMMUNICATION menu contains several sub-menu options, each covering a group of configurable features and parameters related to the communication and reporting as follows (see detailed list in Step-3 of the chart below):

Option	Description of Option Features and Parameters	Section
1:PSTN TEL LINE	Contains configurable features and parameters related to the PSTN telephone line to which the PowerMaster-10 / PowerMaster-30 is connected.	3.6.2
2:GSM/GPRS/SMS	Contains configurable features and parameters related to the Cellular connection of the PowerMaster-10 / PowerMaster-30 system.	3.6.3
3:C.S.REPORTING	Contains configurable features and parameters related to Reporting of event messages to Central Monitoring Stations via telephone, cellular or IP broadband communication.	3.6.4
4:PRIVATE REPORT	Contains configurable features and parameters related to Reporting event messages to Private Users via telephone or SMS.	3.6.5
5:MOTION CAMERA	Contains configurable features and parameters related to Motion Cameras for Video Alarm Verification and forwarding of image clips to Central Monitoring Station and other remote subscribers via e-mail and/or MMS network.	3.6.6
6:UP/DOWNLOAD	Contains configurable connection information, access permission and security codes related to the Upload/Download procedures via PSTN or GPRS.	3.6.7

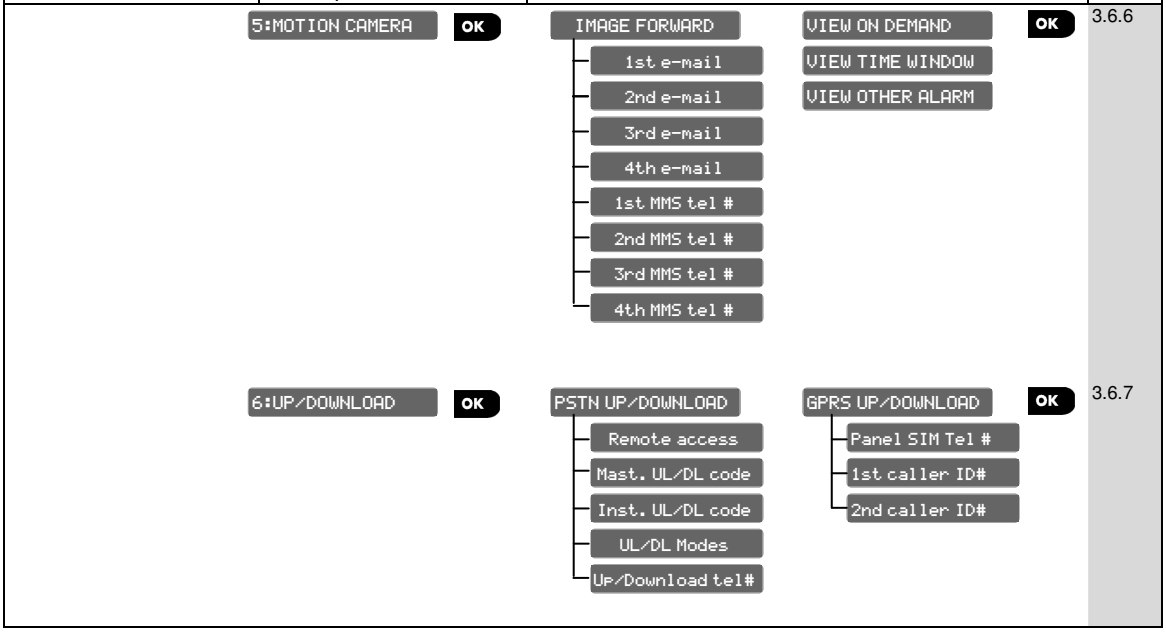
To enter the 04.COMMUNICATION menu and to select and configure an option, proceed as follows:

Step 1 ⓘ	Step 2 ⓘ	Step 3 ⓘ	Step 4	See section
Select "COMMUNICATION" [1]	Select Communication Sub-menu option [2]	Select the **"Communication"** Parameter you wish to configure [3]	ⓘ [4]	
▶▶	▶▶	▶▶	▶▶	
INSTALLER MODE				
↓				
04.COMMUNICATION OK	1:PSTN TEL LINE OK	AREA CODE SKIP LINE PREFIX DIAL METHOD	OK	3.6.2
	2:GSM/GPRS/SMS OK	GPRS REPORT GSM REPORT SMS REPORT GPRS APN GPRS USERNAME	SIM PIN CODE GPRS PASSWORD NETWORK ROAMING GPRS ALWAYS ON GSM KEEP ALIVE OK	3.6.3
	3:C.S. REPORTING OK	∗ 01:REPORT EVENTS 02:1st RPRT CHAN 03:2nd RPRT CHAN 04:3rd RPRT CHAN 05:DUAL REPORT ∗ 11:RCVR1 ACCOUNT ∗ 12:RCVR2 ACCOUNT ∗ 16:PSTN/GSM RCV1	46:PSTN RETRIES 47:GSM RETRIES 51:TEL AUTO TEST 52:AUTO-TST TIME 53:COM.FAIL RPRT PSTN FAIL GSM/GPRS FAIL OK	3.6.4

(∗) These options are available only to the **"Master Installer"**



Step 1 ⓘ	Step 2 ⓘ	Step 3 ⓘ	Step 4
Select "COMMUNICATION" [1]	Select Communication Sub-menu option [2]	Select the **"Communication"** Parameter you wish to configure [3]	ⓘ [4]



ⓘ	ⓘ – *Entering the "Communication" Menu*
	To Select an Option:
[1]	Enter the **Installer Menu** and select the **"04.COMMUNICATION"** option (see section 3.2).
[2]	Select the sub-menu option you need, for example: "3: C.S. REPORTING".
[3]	Select the parameter you wish to configure for example: "11:RCVR 1 ACCOUNT"
[4]	To continue, go to the section of the selected sub-menu option, for example section 3.6.4 for the "3:C.S.REPORTING" sub-menu, and look for the option you wish to configure (e.g. "11:RCVR 1 ACCOUNT"). After configuring the selected parameter the display returns to step 3.
	To Change the Configuration of the Selected Option:
	When entering the selected option, the display shows the default (or the previously selected) **setting** marked with (■).
	If you wish to change the configuration, scroll ▶▶ the "Option settings" menu and select the setting you wish and press OK to confirm. When done the display brings you back to Step 3.

3.6.2 Configuring PSTN (Landline or Telephone Line) Connection

The PowerMaster-10 / PowerMaster-30 panels include a telephone dialer for reporting to Monitoring Stations using Alarm Formats (see section 3.6.4 option 41) and to Private Telephones (see section 3.6.5 "VOICE REPORT"). Here you configure necessary parameters related to the PSTN telephone line to which the PowerMaster-10 / PowerMaster-30 is connected.

To configure an option enter the 1:PSTN TEL LINE menu, select the option you wish to configure (see guidance above and in section 3.6.1), then refer to the table below which provides you with detailed explanations and configuration instructions for each option.

Option	Configuration Instructions
AREA CODE SKIP	In some older PSTN networks, it may not be possible to dial from the control panel to other PSTN telephone numbers (such as monitoring stations or private phones), if the dialed number contains an area code which is identical to the area code of the panel (i.e. both the panel and the other numbers are in the same PSTN area code). If you encounter the same problem with the PSTN network the panel is connected to, you must enter here the area code of the PSTN telephone line to which the panel is connected (up to 4 digits) so that when dialing to other PSTN phone numbers programmed with the same area code, the PowerMaster-10 / PowerMaster-30 will skip the area code from the dialed number.
LINE PREFIX	Here you enter the prefix digit (if necessary) for the system to access an outside telephone line.
DIAL METHOD	Here you determine the dialing method used by the PSTN dialer of the PowerMaster-10 / PowerMaster-30 control panel. Option settings: **pulse** and **tone (dtmf)** (default).

3.6.3 Configuring GSM-GPRS (IP) - SMS Cellular Connection

The GSM/GPRS module is capable of communicating with the Monitoring station receiver by GPRS, GSM Voice (analog) or SMS Channels.

Each of the channels can be separately enabled or disabled in order to allow or prohibit the module from using it for the event reporting. If all channels are enabled, the GSM/GPRS module will always try GPRS first. If fails, it will try GSM voice. If fails, it will try any other possible method (PSTN Broadband) and only then it will try SMS. Disabling any of the GSM channels will cause the module to use a different sequence than the one described above.

To configure an option enter the 2:GSM/GPRS/SMS menu, select the option you wish to configure (see guidance above and in section 3.6.1), then refer to the table below which provides you with detailed explanations and configuration instructions for each option.

Option	Configuration Instructions
GPRS REPORT	Here you determine whether the system will report events to the Monitoring Stations' **PowerManage receivers** via the **GPRS (IP)** Channel. For further information see section 3.6.4 options 21 & 22. Option settings: **disable** (default)**; enable.**
GSM REPORT	Here you determine whether the system will report events to the Monitoring Stations' **Alarm Format receivers** via the **GSM Voice (analog)** Channel. For further information see section 3.6.4 option 41. Option settings: **disable** (default)**; enable.**
SMS REPORT	Here you determine whether the system will report events to the Monitoring Stations' **SMS receivers** via the **SMS** Channel. For further information see section 3.6.4 options 26 & 27. Option settings: **disable** (default)**; enable.**
GPRS APN	Here you enter the name of the **APN Access Point** used for the internet settings for the **GPRS** (up to 40 digits string). ***Note:*** *To enter the APN Access Point, use the* ***"String Editor"*** *at the end of this section.*
GPRS USERNAME	Here you enter the **Username** of the **APN** used for **GPRS** communications (up to 30 digits string). ***Note:*** *To enter the Username, use the* ***"String Editor"*** *at the end of this section.*
SIM PIN CODE	Here you enter the **PIN code** of the **SIM card** installed in the **GSM** module (up to 16 numerical digits). ***Note:*** *To enter the numerical PIN code, use the numerical keyboard.*

GPRS PASSWORD

Here you enter the **Password** of the **APN** used for **GPRS** communications (up to 16 digits string).

Note: *To enter the Password, use the* ***"String Editor"*** *at the end of this section.*

NETWORK ROAMING

Previously known as "FORCE HOME NTWK"

Here you force the SIM card to use only its "Home Network" and disable it from roaming to other networks in case the Home Network cannot be found.

Option settings: **roam disable** (default)**; roam enable.**

GPRS ALWAYS ON

Previously known as "SESSION TIMEOUT"

Here you determine whether the control panel will stay continuously connected ("Always ON") via GPRS communication, or disconnect after each report session.

Option settings: **disabled** (default); **enabled**.

GSM KEEP ALIVE

Some GSM Service providers tend to disconnect the GSM connection if the user has not initiated any outgoing telephone calls during the last 28 days. To prevent from disconnecting the GSM connection, you can configure the system to generate a **"keep alive" GSM** call **every 28 days** sending a test message either to the first SMS number (if exists) or alternatively first private telephone number.

Option settings: **Disable"** (default) or **Every 28 days.**

PowerMaster-10 / PowerMaster-30 String Editor

Key	String Editor Functionality
▶▶	Moves the digits cursor from **left to right**. Long press for fast movement.
◀	Moves the digits cursor from **right to left**. Long press for fast movement.
#	Places the digits cursor to the **extreme right** end position of edit string and shows the last 16 digits of edit string.
8	**Scrolls upward** the alphanumerical/symbols sequence of inserted digits. Long press for fast scroll. For the sequence of the digits see end of this table.
2	**Scrolls downward** the alphanumerical/symbols sequence of inserted digits. Long press for fast scroll. For the sequence of the digits see end of this table.
5	**Changes** between **lowercase** letters (a,b,c…z) and **uppercase** letters (A,B,C…Z).
0	**Clears a single digit** of the string by cursor.
	Clears all digits of the string to the right of cursor.
OK	**Confirms and saves** the edited string and reverts to previous menu.
	Exiting the edit screen and moves one level up to previous or top menu without saving the edit string.
	Exiting the edit screen and moves to the "<OK> TO EXIT" exit screen without saving the edit string.
Sequence	**Alphanumeric/symbol sequence:** a/A, b/B….z/Z; 0,1,2…9; ! # % & ' * + - / = ^ @ . _ ?

3.6.4 Configuring Events Reporting to Monitoring Stations

The PowerMaster-10 / PowerMaster-30 control panel is designed to report alarm, alerts, troubles and other events and messages to two Central Monitoring Stations C.S.1 and C.S.2 via PSTN telephone line, Cellular i.e. GSM voice (analog), GPRS (IP) & SMS or Broadband IP communications channels. In this section you configure and define all parameters and features required for the reporting of the event messages to Monitoring Stations such as:

- The events reported to each of the two Monitoring Stations C.S.1 and C.S.2 and corresponding backups.
- The communication means (channel) used for the reporting and the backup means (channel) in case of failure.
- The customer's (subscriber) account number(s) to be reported to each monitoring station.
- The telephone numbers, IP addresses and SMS numbers and reporting formats of the corresponding alarm receivers at the two Monitoring Stations C.S.1 and C.S.2 and the number of reporting retry attempts in case of failure to report.
- The communication Auto Tests and communication Fail reports.
- The reporting of certain system function events such as "Confirmed Alarm", "Recent Close", Zone Restore" and "System Not-Used".

To configure an option enter the 3:C.S.REPORTING menu, select the option you wish to configure (see guidance above and in section 3.6.1), then refer to the table below which provides you with detailed explanations and configuration instructions for each option.

Option	Configuration Instructions
01:REPORT EVENTS	Here you determine which events (i.e. **Alarms (alrm)**; **Open/close (o/c)**; **Alerts (alrt)**; **Maintenance** and **Troubles**) will be reported to the Monitoring Stations. Due to lack of space in the display, the abbreviations **alrm**, **alrt**, **o/c** and **all** (i.e. all events) are used. The minus (-) symbol means "less/except" e.g. **all(-alrt)** means **all** events except **alerts**. The asterisk (✱) is a separator between events reported to **Monitoring Station 1** (C.S.1) and events reported to **Monitoring Station 2** (C.S.2). For detailed and more complete explanation see the "**Event Reporting Chart**" at the end of this section. Option settings: **all-o/c✱ backup** (default) / **all-o/c✱o/c** / **disable report** / **all ✱all** / **all(-alrt)✱alrt** / **all ✱backup** / **all-o/c✱all-o/c** / **alrm✱all(-alrm)** ***Note:*** *Alarm events (**alrm**) have the highest priority and Alert events (**alrt**) have the lowest priority.*
02:1st RPRT CHAN 03:2nd RPRT CHAN 04:3rd RPRT CHAN	If the system is equipped also with Cellular communicators, you must define which of the communicating channels (i.e. Cellular or PSTN) the system will use as the main channel (i.e. 1st priority) for reporting event messages to Monitoring Stations, and if the main channel fails, which channels will be used in the 2nd and 3rd reporting priorities. Enter the "1st RPRT CHAN"; option and define which of the communication channels the system will use as the main reporting channel. If you wish to define also backup reporting channels, enter the "2nd RPRT CHAN" and "3rd RPRT CHAN" options and define them as well.

Option settings: **disabled** (default); **cellular** and **PSTN**.

Important:	*Only selected communication channels will be used by the system to report event messages to Monitoring Stations. **If none is selected, the reporting to monitoring stations will be disabled**.*
Note:	*When **Cellular** channel is selected then the priorities within he cellular will be GPRS (IP) channel first, then GSM voice channel and last SMS channel provided these channels have been enabled in section 3.6.3.*

05:DUAL REPORT

Here you determine whether or not to report events using **PSTN and Cellular**.

Option settings: **disable** (default) and **PSTN & cellular**.

11:RCVR1 ACCOUNT

12:RCVR2 ACCOUNT

Here you enter the respective 1st Account (subscriber) number (11:RCVR 1 ACCOUNT) that will identify your specific alarm system to the 1st Monitoring Station (designated as RCVR1 or RCV1) and a 2nd Account (subscriber) number (12:RCVR 2 ACCOUNT) that will identify the system to the 2nd Monitoring Station (designated as RCVR2 or RCV2). Each of the Account numbers consists of 6 hexadecimal digits.

Master Installer only

Enter the 1st and 2nd Account numbers in their corresponding locations. To enter Hexadecimal digits, use the following table:

	Entering Hexadecimal Digits						
Digit	**0…..9**	**A**	**B**	**C**	**D**	**E**	**F**
Keying	0…..9	[#]→[0]	[#]→[1]	[#]→[2]	[#]→[3]	[#]→[4]	[#]→[5]

16:PSTN/GSM RCV1

17:PSTN/GSM RCV2

The PowerMaster-10 / PowerMaster-30 can be programmed to report the event messages defined in the Report Events option (option 01) to two Alarm Format Receivers via PSTN telephone line and/or GSM analog voice channel (if equipped with GSM module), using standard PSTN alarm formats (i.e. SIA, Contact-ID and Scancom). The reporting format is defined in the "PSTN Report Format" option (option 41).

Master Installer only

Here you enter the two respective telephone numbers of the Alarm Format Receiver 1 located at the 1st Monitoring Station (16: PSTN/GSM RCV1) and alarm format Receiver 2 located at the 2nd Monitoring Station (17: PSTN/GSM RCV2).

Enter the telephone numbers of alarm format Receiver 1 and Receiver 2 in their corresponding locations (**including area code** – maximum 16 digits). For further programming information see the table below.

***Note:** If any of the phone numbers programmed herein contain an **area code** identical to the area code of the PSTN telephone line to which the system is connected, you should refer to the* AREA CODE *option in section 3.6.2.and act as instructed there.*

Digit	**Keying**	**Digit Significance**
A	[#]→[0]	The dialer waits 10 seconds or waits for dial tone, whichever comes first and then dials. Applicable only at the 1st digit.
D	[#]→[3]	The dialer waits 5 seconds for dial tone and goes on hook if none is received. Applicable only at the 1st digit.
E	[#]→[4]	The dialer waits 5 seconds. Applicable only in the middle of the number.
To **move the cursor** and **clear digits**, use the **"String Editor's"** keys as described in the table at the end of section 3.6.3.		

21:IP RCVR 1

22:IP RCVR 2

If equipped with GSM or Broadband/PowerLink modules, the PowerMaster-10 / PowerMaster-30 can be programmed to report the event messages defined in Report Events option (option 01) to two IP Receivers Visonic model PowerManage. IP reporting can be performed via GPRS (IP) channel using SIA IP format or via Broadband IP channel using SIA IP or Visonic PowerNet format.

Here you can enter the two respective IP addresses of the IP Receiver 1 located at the 1st Monitoring Station (21:IP RCVR 1) and IP Receiver 2 located at the 2nd Monitoring Station (22:IP RCVR 2).

Master Installer only

Enter the IP addresses (000.000.000.000) of IP Receiver 1 and IP Receiver 2 in their corresponding locations.

26:SMS RCVR 1

27:SMS RCVR 2

If equipped with GSM module, the PowerMaster-10 / PowerMaster-30 can be programmed to report the event messages defined in Report Events option (option 01) to two SMS Receivers via the GSM SMS channel using a special SMS text format. For further details concerning the SMS text format please contact Visonic.

Here you enter the two respective telephone numbers of the SMS Receiver 1 located at the 1st Monitoring Station (26:SMS RCVR 1) and SMS Receiver 2 located at the 2nd Monitoring Station (27:SMS RCVR 2).

Master Installer only

Enter the telephone numbers of SMS Receiver 1 and SMS Receiver 2 in their corresponding locations (including area code – maximum 16 digits).

Note: *To enter the international prefix* (**+**) *at the 1st digit – key-in* [#]→[1].

41:PSTN FORMAT

The PowerMaster-10 / PowerMaster-30 can be programmed to report the event messages defined in Report Events option (option 01) to two Alarm Format Receivers (see options 16 & 17) via PSTN telephone line and/or GSM analog voice channel (if equipped with GSM module) using standard PSTN alarm formats (i.e. SIA, Contact-ID and Scancom).

Here you select which of the reporting formats the system will use to report the events to the two Alarm Format Receivers **PSTN/GSM RCVR 1** and **PSTN/GSM RCVR 2.** The Event Codes used for the reporting in each of the available formats are specified in APPENDIX E. Event Codes.

Make sure that the receivers used by the Monitoring Stations are of the compatible models listed below and that the receiver used can receive the format you select.

Compatible Alarm Format Receivers:

Osborne-Hoffman model 2000; Ademco Model 685; FBII Model CP220; Radionics Model D6500; Sur-Gard Model SG-MLR2-DG and Silent Knight Model 9500.

Master Installer only

Option settings: **SIA** (default); **Scancom**; **SIA text** and **contact ID**.

46:PSTN RETRIES

Here you determine the number of times the system will retry to report to the Monitoring Station in case of failure to report via the PSTN telephone line connection.

Option settings: **2 attempts**; **4 attempts** (default); **8 attempts**; **12 attempts** and **16 attempts**.

47:GSM RETRIES

Here you determine the number of times the system will retry to report to the Monitoring Station in case of failure to report via the cellular connection - GPRS (IP), GSM and SMS.

Option settings: **2 attempts**; **4 attempts** (default); **8 attempts**; **12 attempts** and **16 attempts**.

51:TEL AUTO TEST

To verify proper communications via the PSTN telephone line, the PowerMaster-10 / PowerMaster-30 can be configured to send repeated auto test messages at predefined time intervals to the Monitoring Station via PSTN. Here you can enable the auto test feature and determine the time interval between the consecutive tests. The reporting time is set in option 52.

Option settings: **test OFF** (default); **every 1 day**; **every 2 days**; **every 5 days**; **every 7 days**; **every 14 days**; **every 30 days** and **every 5 hours**.

52:AUTO TST TIME

Here you can set the exact time during the day at which the Auto Test message (if enabled in option 51) will be sent to the Monitoring Station.

Enter the auto test time.

Note: *If the AM/PM format is used, you can set the "AM" digit with the* * *button and the "PM" digit with the* # *button.*

53:COM. FAIL RPRT
- PSTN FAIL
- GSM/GPRS FAIL

(Return)

Determine whether a failure in any of the system communication channels i.e. PSTN or GSM/GPRS will be reported or not and the time delay between detection of the failure and reporting of the failure event to the Monitoring Station. A trouble event (i.e. "tel line fail" or "GSM line fail") will be respectively stored in the event log.

To configure:

Press OK to enter the 53:COM. FAIL RPRT sub menu and then scroll, select and configure the communication channel you wish i.e. PSTN FAIL ⇨ GSM/GPRS FAIL. When done, press (Return) to return.

Previously known as "LINE FAIL REPORT"

Option settings "PSTN FAIL": **immediat report** (default); **after 5 min**; **after 30 min**; **after 60 min**; **after 180 min** and **do not report**.

Option settings "GSM/GPRS FAIL": **after 2 min**; **after 5 min**; **after 15 min**; **after 30 min** and **do not report** (default).

61:RPRT CNF ALARM

Master Installer only

Determine whether the system will report the **"confirmed alarm"** event i.e. if 2 successive alarm events occur within a specific time window, provided the feature is activated - see section 3.5.4 option 36.

Option settings: **report disabled** (default); **enabled+bypass** (see note below) and **report enabled**.

Note: "enabled+bypass" *should be selected when compliance with DD243 Annex B (UK standard) is required. According to DD243 if a detector that caused the commencement of the confirmation timer is still alarming at the end of the confirmation timer and a second alarm (confirmed alarm) did not occur by then, the alarming detector SHALL BE BYPASSED and the Central station should be informed that the detector/zone is bypassed.*

62:RECENT CLOSE

A very common reason for false alarms is that users do not exit the premises within the exit delay period and as a result a false alarm occurs a short time later. In such cases it is important to inform the Monitoring Station that the alarm occurred shortly after the system was armed (this event is known as "Recent Close").

Here you can enable the “recent closing” report, that is sent to the Monitoring Station if an alarm occurs within 2 minutes from the expiry of the exit delay

Option settings: **report disabled** (default) and **report enabled**

63:ZONE RESTORE

Some Monitoring Stations require that following an alarm event from a specific zone, the system will also report when the alarming zone has restored to normal.

Here you determine whether a zone restore will be reported or not.

Option settings: **report enabled** (default) and **report disabled**

64:SYST.INACTIVE

The PowerMaster-10 / PowerMaster-30 can be programmed to report a "System Inactive" event message (CID event 654) to the Monitoring Station if the system is not used (i.e. armed) during a predefined time period.

Here you can enable the feature and determine the time period.

Option settings: **report disabled** (default); **after 7 days**; **after 14 days**; **after 30 days**; and **after 90 days**.

65:TWO WAY VOICE *

- Send 2wv code
- Voice <--> C.S.
- Ringback time
- Ambient level

(Return)

Master Installer only for Send 2wv code / Voice <--> C.S. / Ringback time

Here you can configure the two way voice channel settings of the PowerMaster-30, as follows:

Send 2 WV Code: Here you determine whether the system will send two-way voice code to the Monitoring Station (to turn the Monitoring Station from data communication to voice communication state) by using pre-selected SIA or Contact-ID communication format only.

Voice <--> C.S.: Here you select the timeout for 2-way voice communication with Monitoring Stations, or enable the Monitoring Station to ring back for 2-way voice function. This option is applicable only after reporting an event to the Monitoring Station for listening and speaking).

Ringback Time: Here you determine the period during which the Monitoring Station can establish 2-way voice communication with the PowerMaster-30 (after 1 ring), if:

A. Alarm type message was received by Monitoring Station.
B. Ring Back function was selected [see "Voice <--> C.S." sub menu above].

Ambient Level: Here you select the ambient noise level of the installation. If it is a relatively noisy environment, set it to High (default setting). If it is a very quiet environment, set to Low.

To configure:

Press OK to enter the 65:TWO WAY VOICE sub menu and then scroll, select and configure the communication channel you wish i.e. Send 2wv code ⇨ Voice <--> C.S. ⇨ Ringback time ⇨ Ambient level. When done, press (Return) to return.

Send 2wv code — Option settings: **don't send** (default); and **send**.

Voice <--> C.S. — Option settings: **disable** (default); **timeout 10 s**; **timeout 45 s**; **timeout 60 s**; **time out 90 s**; **timeout 2 m**; and **ringback**.
Note: *If "**ring back**" is selected, you should select "disable report" for private telephone (see Option 01:REPORT EVENTS), otherwise the Monitoring Station will establish communication with the PowerMaster-30 (after an event occurrence) in the normal manner (and not after one ring).*

Ringback time — Option settings: **1 minute** (default); **3 minutes**; **5 minutes**; and **10 minutes**.

Ambient level — Option settings: **low** (default); and **high**.

* Refers to PowerMaster-30 with voice option only

Event Reporting Chart

To simplify the configuration of reporting system events to Central Monitoring Stations, the event messages are divided into 5 Event Groups as described in the following table below: Due to lack of space in the display, the following abbreviations are used **alrm**, **alrt**, **o/c**" and **all** (i.e. all events) – see table below.

Event Group	Abbr.	Events Messages Reported
Alarms	**alrm**	Fire, Burglary, Panic, Tamper
Open/close	**o/c**	Arming AWAY, Arming HOME, Disarming
Alerts	**alrt**	No-activity, Emergency, Latchkey
Maintenance	-	Low-battery, AC failure
Trouble	-	All other Trouble events not indicated above such as Missing, Jamming, Communication Fail etc.
***Note: "Alarms"** group has the highest priority and **"Alerts"** group has the lowest priority.*		

The PowerMaster-10 / PowerMaster-30 allows you also to select which event groups will be reported to each of the two Central Monitoring Stations. The table below describes the available reporting options. The minus (**-**) symbol means "but/less/except" e.g. **all(-alrt)** means **all** events except **alerts**. The asterisk (**✱**) is a separator between event messages reported to **Central Monitoring Station 1** (C.S.1) and event messages reported to **Central Monitoring Station 2** (C.S.2).

Available Reporting Options	Events Reported to C.S. 1	Events reported to C.S. 2
"all ✱ backup"	All	All, only if C.S.1 does not respond
"all-o/c ✱ backup"	All but open/close	All but open/close, only if C.S. 1 does not respond
"all ✱ all"	All	All
"all-o/c ✱ all-o/c "	All but open/close	All but open/close
"all-o/c ✱ o/c "	All but open/close	Open/close
"all(-alrt) ✱ alrt"	All but alerts	Alerts
"alrm ✱ all(-alrm)"	Alarms	All but alarms
"disable report"	None	None
***Note:** "**all**" means that all 5 Groups are reported including Trouble messages - sensor / system low battery, sensor inactivity, power failure, jamming, communication failure etc.*		

3.6.5 Configuring Events Reporting to Private Users

The PowerMaster-10 / PowerMaster-30 system can be programmed to send various event notifications such as alarm, arming or trouble events, to 4 Private telephone subscribers using audible signals and if a GSM option is installed, the system can send the messages also to 4 SMS telephone numbers. These reports can be programmed either instead of or in addition to the reports transmitted to the monitoring company. In this section you configure:

- The specific events you wish the system to report.
- The 1st, 2nd, 3rd, and 4th Private telephone and SMS numbers of the private subscribers.
- The number or redial attempts, two-way voice communication* and your preferred acknowledge method i.e. whether a single acknowledge signal will stop the reporting process or an acknowledge signal from each telephone will be required before the reported event is considered reported.

To select and configure an option follow the instructions below. Additional details and guidance are provided in section 3.6.1.

The configuration and detailed description of the 4:PRIVATE REPORT options is provided in the User's Guide Chapter 6 section C.11 and therefore will not be repeated here. The detailed menu and sub-menu options are shown in section 3.6.1 above.

* Refers to PowerMaster-30 with voice option only

3.6.6 Configuring Motion Cameras for Video Alarm Verification

If equipped with a GSM/GPRS module, the PowerMaster-10 / PowerMaster-30 can communicate to Monitoring Stations (equipped with Visonic PowerManage server) via the GPRS network, also image clips captured by Motion Cameras (models Next CAM PG2 & Next-K9 CAM PG2). The Monitoring Station can use the video clips for verification of Burglary alarms detected by the Motion Cameras. The system can be configured to capture image clips also upon occurrence of Non-Burglary alarms (i.e. Fire, Duress, Emergency and Panic). The server can then forward the images to the management computer of the monitoring station or to 4 remote computers via e-mail and/or 4 mobile phones by MMS images.

In addition, the monitoring station can log into the PowerManage server and request the system to provide also image clips "On Demand" and to forward them as defined in the PowerManage application. To protect customers' privacy, the PowerMaster-10 / PowerMaster-30 can be customized to enable the "On Demand View" only during specific system modes (i.e. Disarm, Home & Away) and also to a specific time window following an alarm event. In this section you can program the 4 e-mail addresses and mobile phone numbers to which the images will be forwarded and to configure the parameters of the "On Demand View" according to your customer's needs.

`04.COMMUNICATION` ⇨ `5:MOTION CAMERAS` ⇨ `OPTION you wish` ⇨ Means scroll ▶▶ and select OK

To configure an option enter the `5:MOTION CAMERAS` menu, select the option you wish to configure (see guidance above and in section 3.6.1), then refer to the table below which provides you with detailed explanations and configuration instructions for each option.

Option	Configuration Instructions

`IMAGE FORWARD`
`1st e-mail`
`2nd e-mail`
`3rd e-mail`
`4th e-mail`
`1st MMS tel #`
`2nd MMS tel #`
`3rd MMS tel #`
`4th MMS tel #`
	Here you can enter the four e-mail addresses and/or 4 mobile phone numbers to which you wish the PowerManage server to forward the image clips captured by the Motion Cameras.
	To program:
	Press OK to enter the `IMAGE FORWARD` sub menu and then select and program each of the four e-mail numbers and then each of the four mobile phone numbers. When done, press ⌂ to return.
	Enter the 1st, 2nd, 3rd and 4th e-mail addresses in their corresponding locations (see note below) then enter the 1st, 2nd, 3rd and 4th mobile phone numbers in their corresponding locations (1st MMS tel # etc.)
	Note: *To* ***enter the e-mail addresses,*** *to* ***move the cursor*** *and* **clear digits**, use the "String Editor's" keys as described in the table at the end of section 3.6.3.

`VIEW ON DEMAND`	Here you can enable the "On Demand View" and determine during which arming modes (system states) the "On Demand View" will be permitted. In the next Option "VIEW TIME WINDOW" you can determine when during the permitted arming modes the "On Demand View" will be enabled. Option settings: **Disabled** (default); **in all modes**; **in AWAY only**; **in HOME only**; **in HOME & AWAY; DISARM & AWAY**; **DISARM & HOME**; **in DISARM only**.
`VIEW TIME WINDOW` "VIEW TIME WINDOW" menu appears only if an option other than "Disabled" is selected in "VIEW ON DEMAND"	If the "On Demand View" is enabled in the previous option, you can further determine here whether the "On Demand View" will be possible at any time during the selected arming modes (i.e. "Always") or restricted only to a specific limited time window that follows an alarm event. Option settings: **Always** (default); **Alarm + 5 min.**; **Alarm + 15 min.**; **Alarm + 1 hour**

VIEW OTHER ALARM	Here you determine whether the system will capture and forward image clips also upon occurrence of Non-Burglary alarms (i.e. Fire, Duress, Emergency and panic).
	Option settings: **Enable** (default)**; Disable.**

3.6.7 Configuring Upload / Download Remote Programming Access Permission

Using a PC computer, the PowerMaster-10 / PowerMaster-30 can be configured (by upload/download) either locally or from remote via PSTN telephone line or GPRS cellular communication.

Local programming can be performed by direct connecting the computer to the panel's serial port using the Remote Programmer PC Software.

Remote programming via PSTN can be performed by using a modem and the same software. The modem dials to the control panel and establishes a connection via PSTN using an agreed process. When connection is established, the installer or Master installer can access the panel using the UL/DL access codes programmed in the PSTN UP/DOWNLOAD menu – see table below. For further information refer to the "PowerMaster Remote Programmer Software User's Guide".

Remote programming via GPRS is performed using a Visonic PowerManage server and related Remote Programmer PC software. The PowerManage server sends an SMS message from a cellular modem to the Panel's SIM card number. The panel checks the caller ID of the SMS sender and if identical with any of the two callers ID 1 or 2 programmed in the GPRS UP/DOWNLOAD menu (see table below), the panel initiates a GPRS connection with the respective IP Receiver 1 or 2 (as configured in section 3.6.4 options 21 & 22). When connection is established, the monitoring company can perform the upload/download procedure via the established secured GPRS connection. For further information refer to the PowerManage User's Guide

In this section you can configure the access permissions (i.e. security codes and identification) and determine the functionality of the upload/download procedures via PSTN and GPRS channels.

04.COMMUNICATION ⇨ 6:UP/DOWNLOAD ⇨ OPTION you wish ⇨ Means scroll ▶▶ and select OK

To configure an option enter the 6:UP/DOWNLOAD menu, select the option you wish to configure (see guidance above and in section 3.6.1), then refer to the table below which provides you with detailed explanations and configuration instructions for each option.

Option	Configuration Instructions
PSTN UP/DOWNLOAD	Here you configure the Upload/Download functionality via PSTN. The functionality is determined through a sub-menu of the **PSTN UP/DOWNLOAD** option as shown below. To program: Press OK to enter the PSTN UP/DOWNLOAD sub menu and then select and configure each of the the five sub-menu options as shown below. When done, press ⌂ to return.
Remote access	Here you enable or disable the **remote access** to the system. If disabled, the system can not be **accessed** from remote thereby inhibiting the Upload/Download and the Remote Control via PSTN or GSM analog communication channels (see Chapter-5 in the User's Guide – **Remote Control by Telephone**).
	Option settings: **enabled** (default)**; disabled.**
Mast. UL/DL code	Here you determine the 4-digit **password** code that will allow the **Master installer** to access the system from remote and upload or download data into the PowerMaster-10 panel.
	Enter the 4-digit Master Installer download code ("0000" is not a valid code and must not be used).
Inst. UL/DL code	Here you determine the 4-digit **password** code that will allow the **Installer** to access the system from remote and upload or download data into the PowerMaster-10 panel.
	Enter the 4-digit Installer download code ("0000" is not a valid code and must not be used).
	Note: *The installer can configure via UL/DL only the options he is authorized to configure from the control panel.*
UL/DL modes	Here you determine whether the downloading/uploading can be performed in Disarm mode (state) only or in all modes (i.e. Away, Home & Disarm).
⌂ (Return)	Option settings: **any time** (default) or **when system OFF**.
GPRS UP/DOWNLOAD	Here you configure the Upload/Download functionality via GPRS. The functionality is determined through a sub-menu of the **GPRS UP/DOWNLOAD** option as shown below. To program: Press OK to enter the GPRS UP/DOWNLOAD sub menu and then select and configure each of the three sub-menu options as shown below. When done, press ⌂ to return.
Panel SIM Tel.# Previously known as "My SIM Tel.#"	Here you enter the PowerMaster-10 **SIM card** telephone number. The PowerManage server at the Monitoring Station sends an SMS message to this number when it needs the panel to call back the PowerManage server via GPRS for initiating the uploading / downloading process.
	Enter the SIM card telephone number of the panel's GSM module.
1st caller ID#	Here you enter the **"Caller ID"** (i.e. telephone number) from which **Monitoring Station #1** (C.S.1) is supposed to send the **SMS message** to the control panel for initiating the Up/Download process. If the sender's Caller ID matches with the "1st caller ID#" , the PowerMaster-10 will call back the PowerManage server using **"IP RCVR 1"** address as configured in Section 3.6.4. option 21.
	Enter the Caller ID number of the SMS sender from Monitoring Station #1.
	Note: *Caller ID#1 must contain at least 6 digits otherwise the process will not work.*
2nd caller ID#	Here you enter the **"Caller ID"** (i.e. telephone number) from which **Monitoring Station #2** (C.S.2) is supposed to send the **SMS message** to the control panel for initiating the Up/Download process. If the sender's Caller ID matches with the "2nd caller ID#" , the
⌂ (Return)	

PowerMaster-10 will call back the PowerManage server using **"IP RCVR 2"** address as configured in Section 3.6.4. option 22.
Enter the Caller ID number of the SMS sender from Monitoring Station #2.
Note: *Caller ID#2 must contain at least 6 digits otherwise the process will not work.*

3.7 PGM Output

3.7.1 General Guidance

The 05:OUTPUTS menu enables you to select events/conditions under which the PGM (programmable) output will function and to select the internal siren or STROBE light (that will be activated according to system programming).

05.OUTPUTS ⇨ PGM DEVICES ⇨ PGM DEVICE 01 ⇨ Means scroll ▶▶ and select OK

To configure an option, enter the PGM DEVICE 01 menu, select the option you wish to configure (see guidance above and in section 3.2), and then refer to the table below which provides you with detailed explanations and configuration instructions for each option.

3.7.2 Open Collector States

The PowerMaster-10 / PowerMaster-30 provides an open collector output (active low) for control:
ON state (pulled to ground) = 0
OFF state:

no pullup = float
with pullup to Vcc = 1

3.7.3 Configuring a PGM device

Here you determine which factors, including any combination of factors, will determine the PGM output.

3.7.4 Entering Daytime Limits

05.OUTPUTS ⇨ PGM DEVICES ⇨ LOCKOUT TIME ⇨ Means scroll ▶▶ and select OK

Select the LOCKOUT TIME menu to enter the daytime limits through which the PGM device will turn off, even when the associated sensors are triggered.

Option	Configuration Instructions
PGM: BY ARM AWAY	Determine to activate the PGM output upon arming **Away**.
	Option settings: **disabled** (default)**; turn ON; turn OFF; activate PULSE.** [1]
PGM: BY ARM HOME	Determine to activate the PGM output upon arming **Home**.
	Option settings: **disabled** (default); **turn ON**; **turn OFF**; **activate PULSE**. [1]
PGM: BY DISARM	Determine to activate the PGM output upon **Disarming**.
	Option settings: **disabled** (default)**; turn ON; turn OFF; activate PULSE.** [1]
PGM: BY MEMORY	Determine to activate the PGM output upon registration of an alarm in the memory. The output will restore to normal upon memory clearing.
	Option settings: **disabled** (default)**; turn ON; turn OFF; activate PULSE.** [1]

PGM: BY DELAY	Determine to activate the PGM output during the E**xit and Entry** delays. Option settings: **disabled** (default); **turn ON**; **turn OFF**; **activate PULSE**. [1]
PGM: BY KEYFOB	Determine to activate the PGM output upon pressing the AUX (✱) button of keyfob transmitters that have been configured to activate the PGM output. For further details, refer to the configuration instructions of the AUX (✱) button of the respective keyfobs' datasheets. Option settings: **disabled** (default)**; turn ON; turn OFF; activate PULSE; toggle** [1]
PGM: BY SENSOR Zone A Z:_ _ Zone B Z:_ _ Zone C Z:_ _	Determine to activate the PGM output upon activation of any one of up to 3 sensors (zones) in the systems irrespective whether the system is armed or disarmed. To configure: Press OK to enter the PGM: BY SENSOR sub menu and then select the Zone you wish to program, for example **"Zone A**". If the zone was configured before, the display shows the current zone number (Z:xx) and if not, the zone number will be blank (Z:_ _). To configure the zone number press OK for the programming cursor to appear under the first digit. Enter the Zone number (2 digits) you wish to activate the PGM output and press OK to confirm. If you wish to add another sensor, select any of the other two options ("Zone B" and "Zone C") and repeat the above process. When done press ⌂ to return. Option settings: **disabled** (default); **turn ON**; **turn OFF**; **activate PULSE**; **toggle** [1] ***Note:*** *If you select* ***toggle****, the PGM output will be turned on upon event occurrence in any of these zones and will be turned off upon next event occurrence,* ***alternately****.*
PGM:BY LINE FAIL Line fail NO Line fail YES	Determine to activate the PGM output following failure of the PSTN line Option settings: **by line fail NO (default); by line failYES.**
PGM: LOCKOUT TIME start - HH:MM A stop - HH:MM A	Enter daytime limits between which PGM lighting devices controlled by sensors will be off, even when the associated sensors are triggered. Option settings: **disabled** (default); **turn ON**; **turn OFF**; **activate PULSE**
PGM: PULSE TIME pulse time 2s ■ pulse time 30s pulse time 2m pulse time 4m	Determine the PGM output pulse time. This value is the same for all events (by ARM AWAY, by ARM HOME, by DISARM etc.) which were selected with "activate PULSE" option.

Step 1	ⓘ	Step 2	ⓘ	Step 3	ⓘ	Step 4	ⓘ	Step 5 ⓘ
Select "PGM DEVICES" option	[1]	Select "PGM DEVICE 01" or "LOCKOUT TIME"	[2]	Select a mode to configure	[3]	Select the new setting	[4]	
▶▶				▶▶		▶▶		
05:OUTPUTS OK PGM DEVICES	OK	PGM DEVICE 01 ▶▶	OK	PGM: BY ARM AWAY PGM: BY ARM HOME PGM: BY DISARM PGM: BY MEMORY PGM: BY DELAY PGM: BY KEYFOB	OK	disable ■ turn ON turn OFF activate PULSE toggle [5] [6]	OK	Return to step 3. See ⓘ[4]
				PGM: BY SENSOR		Zone A Z:_ _ Zone B Z:_ _ Zone C Z:_ _		
				PGM:BY LINE FAIL		by line fail NO by line failYES		
				PGM: PULSE TIME		pulse time 2s pulse time 30s pulse time 2m pulse time 4m [7]		
		LOCKOUT TIME	OK	start - HH:MM A stop - HH:MM A [8]				

ⓘ ***ⓘ – Entering the "PGM Output" Menu***

To Select an Option:

[1] Enter the **Installer Menu** and select the 05:OUTPUTS option (see section 3.2).

[2] Select the sub-menu option you need, for example: PGM DEVICE 01.

[3] Select the parameter you wish to configure for example: PGM: BY MEMORY

[4] To continue, go to the Section of the selected sub-menu option and look for the option you wish to configure. After configuring the selected parameter the display returns to step 3.

[5] The "toggle" option setting is available only for "PGM: BY KEYFOB".

[6] Select "Turn on" to activate the PGM device, "Turn off" to stop the PGM device and "disable" to deactivate the PGM device.

[7] The time selection will take effect when the "activate PULSE" is enabled.

[8] Select "start" / "stop" and enter the desired time.

To Change the Configuration of the Selected Option:

When entering the selected option, the display shows the default (or the previously selected) setting marked with (■).

If you wish to change the configuration, scroll ▶▶ the "Option settings" menu and select the setting you wish and press OK to confirm. When done the display bring you back to Step 3.

3.8 Custom Names

3.8.1 Custom Zone Names

During the device enrollment process you are defining also the Location name where the device is installed. The location name is selected from a Location List of 26 predefined names and 5 Custom names (Custom 1 to Custom 5) - see Section 3.4.2 Steps 6-7 and corresponding Location List in section 3.4.2.

Here you can define the 5 custom location names according to your specific needs and to use them during the device enrollment instead of the **"Custom 1**" to "**Custom 5**" names in the location list.

To define the Custom Location names follow the instructions below. Additional details and guidance are provided in section 3.2.

INSTALLER MODE ⇨ 06.CUSTOM NAMES ⇨ CUST. ZONES NAME ⇨ Means scroll ▶▶ and select OK

To program the custom location you wish, enter the CUST. ZONES NAME menu (see guidance above), then refer to the table below which provides you with detailed explanations and programming instructions.

Option	Configuration Instructions
CUST. ZONES NAME EDIT USER TERM 1 EDIT USER TERM 2 EDIT USER TERM 3 EDIT USER TERM 4 EDIT USER TERM 5	Here you can enter the five Custom Location names you wish to use instead of the "Custom 1" to "Custom 5" names in the Location List in Section 3.4.2. To program: Press OK to enter the CUST. ZONES NAME sub menu and then select the Location # you wish to program, for example "**EDIT USER TERM 1**". The display shows the current Custom name, for example "**Custom 1**". To change the name press OK for the programming cursor to appear under the first character. Enter the Location name you wish and at the end press OK to confirm. When done, press ⌂ to return. ***Note:*** *To enter the Location name use the "Text Editor" at the end of section 3.6.3.*

3.8.2 Record Speech*

This mode allows you to record short-duration speech messages for the house identity, user names and custom zone names.

For the recording procedure follow the instructions below. Additional details and guidance are provided in section 3.2.

INSTALLER MODE ⇨ 06.CUSTOM NAMES ⇨ RECORD SPEECH ⇨ Means scroll ▶▶ and select OK

To select the option you wish, enter the RECORD SPEECH menu, select the option you wish to perform (see guidance above), then refer to the table below which provides you with detailed explanations for each option.

* Refers to PowerMaster-30 only

Option	Instructions
HOUSE IDENTITY	Here you can record a message to be announced automatically when events are reported to private telephones. While in HOUSE IDENTITY, press OK to initiate the recording procedure. Press the 2 button continuously to record your message; RECORD A MESSAGE appears momentarily and then changes to TALK NOW□□□□□ (the square boxes slowly disappear, one by one, until the end of the recording time). At the end of the recording process, the panel will display the following: RECORDING ENDED. Release the 2 button. ***Note:*** *To check the recorded message, press the 5 button and listen to the playback.*

To advance to the next stage in the recording procedure; from the HOUSE IDENTITY menu, click ▶▶.

Option	Instructions
USER #5 NAME	Here you can record ten user names and assign them to users 23-32. In case of event, the relevant user name will be added to the message that will be reported via the telephone. Record user names for 23-32; the procedure is identical to the "HOUSE IDENTITY" recording procedure described above. Click ▶▶ to navigate between user name numbers.
USER TERM #1	Here you can record user terms 1- 5 (for example, Living room, Library, etc.), and assign them to specific zones. These names are useful if none of the 26 fixed zone names are found suitable for a certain zone. When done, press ⌂ to return. Record user terms 1-5; the procedure is identical to the "HOUSE IDENTITY" recording procedure described above. Click ▶▶ to navigate between user term numbers.

3.8.3 Voice Box Mode*

This mode allows you to determine whether two-way voice communication is to be sounded either via an external speakerphone, via the control panel, or via both.

For the two-way voice communication procedure, follow the instructions below. Additional details and guidance are provided in section 3.2.

INSTALLER MODE ⇨ 06.CUSTOM NAMES ⇨ VOICE BOX MODE ⇨ Means scroll ▶▶ and select OK

To select the option you wish, enter the VOICE BOX MODE menu, select the option you wish to perform (see guidance above), then refer to the table below which provides you with the options.

VOICE BOX MODE	Define whether two-way voice communication is to be sounded either via the external speakerphone ("VOICE BOX ONLY"), via the control panel ("NO VOICE BOX"), or via both ("VOICE BOX MIXED"). Option settings: **NO VOICE BOX** (default)**; VOICE BOX ONLY** and **VOICE BOX MIXED**

* Refers to PowerMaster-30 only

3.9 Diagnostics

3.9.1 General Guidance – "Diagnostics" Flow-Chart & Menu Options

The DIAGNOSTICS menu enables you to test your system and to verify proper operation of your PowerMaster panel, wireless devices attached to it and the communication (GSM/GPRS) modules.

IMPORTANT! *Reliable reception must be assured during the initial testing and also throughout subsequent system maintenance. A* ***device should not be installed in location where signal strength is "poor".*** *If you get "poor" signal strength from a certain device, simply re-locate it and re-test until a "good" or "strong" signal strength is received. This principle should be followed throughout the diagnostic test procedure.*

The diagnostic test process is shown below.

The 07.DIAGNOSTICS menu contains several sub-menu options, each covering a group of configurable features and parameters related to the communication and reporting as follows (see detailed list in Step-3 of the chart below):

Option	Description of Option Features and Parameters	Section
WL DEVICES	Describes how to test the devices attached to the PowerMaster panel, review devices' status and RF signal status. You can test all devices, test single device, review devices status and review RF problems, in case of any.	4.8.2
GSM/GPRS	Describes how to test the GSM/GPRS communication module.	4.8.3

To enter the 07.DIAGNOSTICS menu and to select and configure an option, proceed as follows:

Step 1	ⓘ	Step 2	ⓘ	Step 3			ⓘ	Step 4
Select 07. DIAGNOSTICS	[1]	Select Diagnostics Sub-menu option	[2]	Select the diagnostics you want to perform			[3]	ⓘ [4]
▶▶		▶▶		▶▶		▶▶		See section
INSTALLER MODE								
▶▶								
07. DIAGNOSTICS	OK	WL DEVICES	OK	TEST ALL DEVICES SHOW ALL DEVICES SHOW RF PROBLEMS	OK			4.8.2
				TEST ONE DEVICE	OK	Contact sensors Motion sensors ▶▶ Repeaters	OK	
		GSM/GPRS	OK		OK		OK	4.8.3

ⓘ	ⓘ *– Configuring an option from the "Diagnostics" menu*
	To Select an Option:
[1]	Enter the **Installer Menu** and select the 07.DIAGNOSTICS option (see section 4.2).
[2]	Select the sub-menu option you need, for example: WL DEVICES.
[3]	Select the diagnostic function you wish to perform, for example: TEST ONE DEVICE.

3.9.2 Testing Wireless Devices

The PowerMaster enable to test the wireless devices attached to the panel. You can test all devices, one device at a time, display devices' status and review RF problems, in case of any.

07.DIAGNOSTICS ⇨ WL DEVICES ⇨ OPTION you wish ⇨ Means scroll ▶▶ and select OK

To select the option you wish, enter the WL DEVICES menu, select the option you wish to perform (see guidance above and in section 4.8.1), then refer to the table below which provides you with detailed explanations for each option.

Option	Instructions
TEST ALL DEVICES	Here you can test all devices automatically, one after the other. While in TEST ALL DEVICES, press OK to initiate the test. The devices are tested in the following order: wall-mounted devices, keyfobs and handheld devices. At the end of the test process, the panel will present the following: SHOW ALL DEVICES. Press OK to view devices' status. ***Note:*** *Refer to* SHOW ALL DEVICES *section for further information on device status.* Pressing any key during the testing process will open the following options: 1. Press ▶▶ to jump to the next device group. For example, from wall-mounted devices to keyfobs. 2. Press OK to continue the testing process 3. Press 🔓 to exit the test process. While in the handheld devices test process, indicated by the corresponding display, for example, "TEST KEYFOBS 01", press any key of the selected handheld device to initiate the test.
TEST ONE DEVICE CONTACT SENSORS MOTION SENSORS GLASSBREAKSENS.	Here you can select a specific device you wish to test (Contact Sensors, Motion Sensors, Glassbreak Sensors, Smoke Sensors, CO Sensors, Gas Sensors, Flood Sensors, Temperature Sensor, Keyfobs, Keypads, Sirens or Repeaters). Press OK to enter the TEST ONE DEVICE sub menu and use ▶▶ to scroll through the device families. Press OK to enter the <device family> sub menu For example: MOTION SENSORS. The following screens will appear: Zxx:<device name> ↩ <location> Where Zxx indicates the device zone number. If there is no device, the following screen will appear: NO EXISTING DEV.. Press OK to test the selected device. The following screen will appear:

	TESTING Zxx NNN . While in the handheld devices test process, indicated by the corresponding display, for example, "TEST KEYFOBS 01", press any key of the selected handheld device to initiate the test. At the end of the test process, the panel will present the devices' status: Zxx: 24hr: <status>* ⮌ Zxx: NOW: <status>* Note: Refer to SHOW ALL DEVICES section for further information on device status.
SHOW ALL DEVICES	Here you can view the devices status. Note: This option is available only after testing process was done. Press OK to view the devices' status. The following screens will appear: Zxx: 24hr: <status>* ⮌ Zxx: NOW: <status>* * The signal strength indications are as follows: "STRONG"; GOOD"; "POOR"; "1-WAY" (the device operates in 1-way mode, or, the "NOW" communication test failed); "NO COM." (no communication); "NOT TST" (results are shown without any performed test); "NOT NET" (device is preenrolled – not networked); "NONE" (keyfob 24Hr result); or "EARLY" (result of the last 24Hrs without statistics). Use ▶▶ to scroll between the device's families.
SHOW RF PROBLEMS	Here you view only the devices which have RF problems. Note: This option is available only after testing process was done. Press OK to view the devices' status. The following screens will appear: Zxx: 24hr: <status>* ⮌ Zxx: NOW: <status>* * The signal strength indications are as follows"POOR"; "1-WAY" (the device operates in 1-way mode, or, the "NOW" communication test failed); "NO COM." (no communication); "NOT TST" (results are shown without any performed test); "NOT NET" (device is preenrolled – not networked); "NONE" (keyfob 24Hr result); or "EARLY" (result of the last 24Hrs without statistics). Use ▶▶ to scroll between the device's families.

3.9.3 Testing the GSM module

The PowerMaster enable to test the GSM module integrated inside the panel.

07.DIAGNOSTICS ⇨ GSM/GPRS ⇨ Means ▶▶ and OK scroll select

To start the GSM diagnostic process, enter the GSM/GPRS menu, and press OK to initiate the test. Upon test completion, the PowerMaster10 / PowerMaster-30 will present the test result.

The following table presents the test result messages

Message	Description
Unit is OK	GSM / GPRS is functioning correctly
GSM comm. loss	The GSM/GPRS module does not communicate with the Panel
Pin code fail	Missing or wrong PIN code. (Only if SIM card PIN code is enabled.)
GSM net. fail	Unit failed with registration to local GSM network.
SIM card fail	SIM not installed or SIM card failure.
GSM not detected	GSM auto enroll failed to detect GSM/GPRS module.
No GPRS service	The SIM card does not have the GPRS service enabled.
GPRS conn. fail	Local GPRS network is not available or, wrong setting to GPRS APN, user and/or password.
Srvr unavailable	IPMP Receiver cannot be reached – Check the Server IP
IP not defined	Server IP #1 and #2 are not configured.
APN not defined	APN is not configured.
SIM card locked	After entering a wrong PIN code 3 consecutive times the SIM is locked. To unlock it enter a PUK number. The PUK number cannot be entered by the control panel.
Denied by server	The IPMP denies the connection request. Check that the Panel is registered to the IPMP

3.10 User Settings

This USER SETTINGS menu provides you with a gateway to the user settings through the regular user programming menu.

Refer to the User's Guide for detailed procedures.

Caution! If after having programmed the user codes the system does not recognize your installer code, this indicates you must have programmed a user code that is identical with your installer code. If so, access the user menu and change the code that is identical with your installer code. This will re-validate your installer code

3.11 Factory Default

3.11.1 General Guidance – "Factory Default" Menu

The FACTORY DEFLT menu enables you to reset the PowerMaster-10 / PowerMaster-30 parameters to the factory default parameters. To obtain the relevant parameters defaults, contact the PowerMaster-10 / PowerMaster-30 dealer.

3.11.2 Resetting Factory Default Parameters

To reset factory default parameters proceed as follows:

Step 1	ⓘ	Step 2	ⓘ	Step 3	ⓘ	Step 4	ⓘ	Step 5
Select "09:FACTORY DEFLT" menu	[1]	Select "<OK> to restore"	[2]	Enter Installer Code	[3]	Resetting of factory default parameters is underway	[4]	

ⓘ	ⓘ *– Resetting Factory Defaults*
[1]	Enter the **Installer Menu** and select the **"**09:FACTORY DEFLT**"** menu (see section 3.2).
[2]	When "<OK> to restore" appears, press **i OK**.
[3]	Enter the Installer Code. ***Note:*** *For PowerMaster-10 / PowerMaster-30 with 2 installer codes, INSTALLER code and MASTER INSTALLER code, only the master installer code enables to perform the factory default function*
[4]	This is a brief display after which all factory defaults are retrieved.

3.12 Serial Number

3.12.1 General Guidance – "Serial Number" Menu

The SERIAL NUMBER menu enables reading the system serial number and similar data for support purposes only.

3.12.2 Reading the Serial Number

To read the system serial number and other relevant data proceed as follows:

Step 1	ⓘ	Step 2	ⓘ	Step 3
Select "10:SERIAL NUMBER" menu	[1]	The control panel displays the system serial number	[2]	
▶▶				
10:SERIAL NUMBER	OK	0907030000. JS701950 K13.013 JS700421 v1.0.01 * Panel ID: 100005 PYTHON:■■■■■■	OK	⮌ To Step 1

ⓘ	ⓘ *– Reading the Serial Number*
[1]	Enter the **Installer Menu** and select the **"**10:SERIAL NUMBER**"** menu (see section 3.2).
[2]	The control panel's first display is the system serial number. Upon each press of the ▶▶ button, the control panel will display the following information respectively: • Panel HW version: The version of the panel's hardware • Panel SW version: The version of the panel's software* • The version of the LCD display • The version of the modem

3.13 Start UL/DL

3.13.1 General Guidance – "Start UL/DL" Menu

Note: *This option is only used during the installation of panels monitored by compatible Monitoring Stations.* The "START UL/DL" menu enables the installer to initiate a call to the upload/download server. The server uploads the PowerMaster-10 / PowerMaster-30 configuration to its database and can download predefined parameters to the PowerMaster-10 / PowerMaster-30.

* Refers to PowerMaster-30 only

3.13.2 Performing Server Upload/Download

To perform server upload/download proceed as follows:

Step 1	ⓘ	Step 2	ⓘ	Step 3	
Select "11:START UL/DL" menu	[1]	Select "PGM DEVICE 01"	[2]		[

ⓘ	ⓘ *– Performing Server Upload/Download*
[1]	Enter the **Installer Menu** and select the **"**11:START UL/DL**"** menu (see section 3.2).
[2]	After pressing the **i OK** button, one of the following messages will appear on the control panel display: "**COMMUNICATING**" - If the UL/DL server telephone number was already defined (see section 3.6.4 "Configuring Events Reporting to Monitoring Stations"), the PowerMaster-10 / PowerMaster-30 display will read "COMMUNICATING" which is displayed during the dialing process. "**TEL# NOT DEFINED**" - If the UL/DL server telephone number was not defined (see section 4.6.4 "Configuring Events Reporting to Monitoring Stations"), the PowerMaster-10 / PowerMaster-30 display will read "TEL# NOT DEFINED" which is displayed for approx. 30 sec. and is followed by a sad (failure) tune. "**DOWNLOADING**" - If communication has been established between the PowerMaster-10 / PowerMaster-30 control panel and the upload/download server, the PowerMaster-10 / PowerMaster-30 display will read "DOWNLOADING" which is displayed during the dialing process. "**DIAL ATTEMPT**" - If communication has failed between the PowerMaster-10 / PowerMaster-30 control panel and the upload/download server, the PowerMaster-10 / PowerMaster-30 display will read "DIALATTEMPT FAIL" which is displayed for approx. 30 sec. and is followed by a sad (failure) tune. "**DOWNLOAD OK**" - After the downloaded/uploaded process has been completed successfully, the PowerMaster-10 / PowerMaster-30 display will read "DOWNLOAD OK" which is displayed for approx. 30 sec. and is followed by a happy (success) tune. "**DOWNLOAD FAILED**" - If communication has been established between the PowerMaster-10 / PowerMaster-30 control panel and the upload/download server but the downloaded/uploaded process has failed, the PowerMaster-10 / PowerMaster-30 display will read "DOWNLOAD FAILED" which is displayed for approx. 30 sec. and is followed by a sad (failure) tune.

3.14 Partitioning

3.14.1 General Guidance – "Partitioning" Menu*

This mode allows you to enable/disable the partitioning feature in the PowerMaster-30 control panel. Partitioning allows you to divide the system into a maximum of three independently controllable areas. A different user code is assigned to each partition or one user code is assigned to all partitions in order to limit or control access to each area. A partition can also be armed or disarmed regardless of the status of the other partitions within the system.

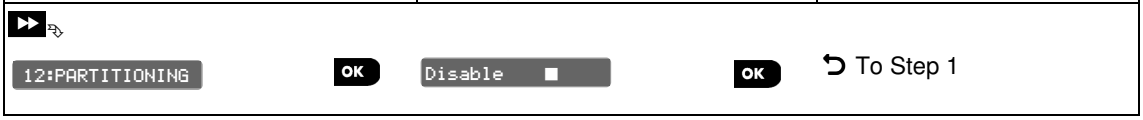
When the partition feature is disabled, zones, user codes and features will operate the same as in a regular PowerMaster-30 unit. When partition is enabled, menu displays are changed to incorporate the partition feature.

* Refers to PowerMaster-30 only

3.14.2 Enabling / Disabling Partitions

To enable or disable the partition feature proceed as follows:

Step 1	ⓘ	Step 2	ⓘ	Step 3
Select "12:PARTITIONING" menu	[1]	Select whether to enable of disable Partitioning	[2]	



ⓘ	ⓘ *– Enabling / disabling Partitions*
[1]	Enter the **Installer Menu** and select the "12:PARTITIONING" menu (see section 3.2).
[2]	Select between "Disable" (default) and "Enable".

3.15 Exiting the Installer Mode

To exit the Installer Mode, proceed as follows:

Step 1	ⓘ	Step 2	ⓘ	Step 3	ⓘ
	[1]		[2]		[3]

ⓘ	ⓘ *– Exiting the Installer Mode*
[1]	To exit "INSTALLER MODE", move up the menu by pressing the button repeatedly until the display reads [<OK> TO EXIT] or preferably; press the button once which brings you immediately to the exit screen [<OK> TO EXIT].
[2]	When the display reads [<OK> TO EXIT], press OK.
[3]	The system exits the “INSTALLER MODE" menu and returns to the normal disarm state while showing the READY display.

4 PERIODIC TEST

4.1 General Guidance

This mode provides you with the means to conduct a periodic test, via the PERIODIC TEST menu, at least once a week and after an alarm event.
When you are instructed to perform "periodic test", walk throughout the site to check the detectors / sensors (except for Sirens and Temperature Sensors). When a detector/sensor is triggered into alarm, its name, number and the alarm reception level should be indicated (for example, "Bathroom", "Z19 strong") and the buzzer should sound according to the alarm reception level (1 of 3). Each device should be tested according to the device Installation Instructions.

To enter the PERIODIC TEST menu and to conduct a periodic test, proceed as follows:

Step 1	ⓘ	Step 2	
READY	[1]	Select the test you want to perform [2]	
▶▶ ↓			
PERIODIC TEST (enter installer / master code)	OK	SIRENS TEST TEMPERATURE TEST TEST ALL DEVICES TEST ONE DEVICE	OK

ⓘ *ⓘ – Entering the "Periodic Test" Menu*

To Select an Option:

[1] Enter the PERIODIC TEST menu using your installer or master code.

[2] Select the test to perform, for example: TEMPERATURE TEST and then press OK.

4.2 Conducting a Periodic Test

The PowerMaster-10 / PowerMaster-30 enables you to conduct the periodic test in four parts:

Siren Test: Each siren of the system is automatically activated for 3 seconds (outdoor sirens with low volume).

Temperature Sensor Test: When Temperature Sensors are enrolled in the system, the control panel displays the temperature of each zone in Celsius or Fahrenheit.

Test all devices: All devices are tested.

Other Device Test: Each of the other devices in the system is activated by the installer and the display indicates which devices were not yet tested. The "**it's me"** indication helps to identify the untested devices if necessary. A counter also indicates the number of devices that remain untested.

READY ⇨ PERIODIC TEST ⇨ OPTION you wish ⇨ Means ▶▶ and OK

To conduct a periodic test, make sure the system is disarmed and then enter the PERIODIC TEST menu using your installer code (8888 by default) or master installer code (9999 by default). Immediately after entering the "Periodic Test" menu, all 4 LED's on the panel will momentarily light (LED test).

Option	Instructions
SIRENS TEST	Here you can test the sirens. To initiate the siren test press ⓘ OK. The display now reads SIREN N, where "N" indicates the zone location assigned to the siren that is currently being tested. [1]

First the panel siren sounds for 3 seconds after which the PowerMaster-10 / PowerMaster-30 system will automatically repeat the procedure for the next siren enrolled in the system until all sirens are tested. You should listen to the sirens sounds and make sure that all sirens sound.

When all the sirens have been tested, the display reads SIREN TESTS END. Press the i OK or the ▶▶ button to confirm the test.

TEMPERATURE TEST

Here the control panel reads the temperature of zone.

To display the temperature of zones on the control panel, press i OK. The control panel reads the temperature of the each zone. The display alternates between the temperature, the sensor number and the sensor location, as in the following example: Z01 24.5°C changes to Z01:Temp. Sensor changes to Guest room. Repeatedly click the ▶▶ button to review the temperature of each zone (by Temperature Sensor).

When the temperature of all zones has been reviewed, the display reads DEVICE TESTS END. Press the i OK or the ▶▶ button to confirm the test and then move to the next step to test the other devices.

TEST ALL DEVICES

Here you can test all devices in one procedure. [2]

While in TEST ALL DEVICES, press OK to initiate the test.

The control panel now reads NOT ACTIVE NNN. "N" indicates the number of enrolled devices in the control panel that have not been tested. This number automatically drops one count for every tested device.

When the NOT ACTIVE NNN screen appears, walk throughout the site to test the detectors / sensors or press any key of the selected handheld device to initiate the test.

After a device has been activated, the control panel reads "Zxx IS ACTIVATE" and the "N" indicator drops one count.

Pressing OK during the testing process will display details of each device that has not yet been tested. The control panel reads the device number, followed by the device type (for example, Contact Sensor, Motion Sensor or Keyfob) and followed by the device location. At this stage, pressing any one of the following keys will open the following options:

1. Press ▶▶ to view details of the next untested device. [3]
2. Press 🔓 to exit the test process.

During testing, you can also check the signal strength indication of each device, (for further details, refer to the device Installation Instructions).

After all devices have been tested, the control panel reads DEVICE TESTS END.

TEST ONE DEVICE
- CONTACT SENSORS
- MOTION SENSORS
- GLASSBREAKSENS.

Here you can select a specific device you wish to test (Contact Sensors, Motion Sensors, Glassbreak Sensors, Smoke Sensors, CO Sensors, Gas Sensors, Flood Sensors, Wired sensors, Keyfobs or Keypads).

Press OK to enter the TEST ONE DEVICE sub menu and use ▶▶ to scroll through the device families. Press OK to enter the < device family > sub menu For example: MOTION SENSORS.

The following screens will appear: Zxx:<device name> ↩ < location >

Where Zxx indicates the device zone number.

If there is no device, the following screen will appear: NO EXISTING DEV.

Press OK to test the selected device. The following screen will appear: Z01 ACTIVATE NOW.

Walk throughout the site to test the detectors / sensors or press any key of the selected handheld device to initiate the test.

During testing, you can also check the signal strength indication of each device, (for further details, refer to the device Installation Instructions).

At the end of the test process, the panel will revert to: TEST ONE DEVICE.

ⓘ	ⓘ *– Periodic Test*
[1]	If the panel's display reads SIREN P, this indicates that the control panel's siren is currently being tested.
[2]	Not including Siren and Temperature Sensors
[3]	After reviewing all untested devices the control panel will read "<OK> TO LEAVE". You can now do one of the following: press OK to abort the testing procedure; press ▶▶ to continue the testing procedure; or press 🔒 to exit the testing procedure.

5. MAINTENANCE

5.1 Handling System Troubles

Fault	What it means	Solution
1-WAY	The control panel cannot configure or control the device. Battery consumption increases.	i) Make sure the device is physically present. ii) Check the display for device faults, for example, low battery. iii) Use RF diagnostics to check the current signal strength and during the last 24 hours. iv) Open the device cover and replace the battery or press the tamper switch. v) Install the device in a different location. vi) Replace the device.
NOT NETWORKED	A device was not installed or not installed correctly, or, cannot establish communication with the control panel after installation.	i) Make sure the device is physically present. ii) Use RF diagnostics to check the current signal strength and during the last 24 hours. iii) Open the device cover and replace the battery or press the tamper switch. iv) Enroll the device again.
MISSING	A device or detector has not reported for some time to the control panel.	i) Make sure the device is physically present. ii) Check the display for device faults, for example, low battery. iii) Use RF diagnostics to check the current signal strength and during the last 24 hours. iv) Replace the battery. v) Replace the device.
JAMMING	A radio-frequency signal which is blocking communication channel of sensors and control panel is detected.	Locate the source of interference by switching off any wireless devices (cordless telephones, wireless ear plugs, etc.) in the house for 2 minutes then check if trouble continues. Use also RF diagnostics to check signal strength.
LOW BATTERY	The battery in a sensor, keyfob or wireless commander is near the end of its useful life.	i) For AC powered devices, check AC power is available and connected to the device. ii) Replace the device battery.
CLEAN ME	The fire detector must be cleaned	Use a vacuum cleaner to clean the detector air vents occasionally to keep them free of dust.
GAS TROUBLE	Gas detector failure	Gas detector: Disconnect and then put back the AC power supply connector CO Gas detector: Replace the detector

Fault	What it means	Solution
SIREN AC FAILURE	There is no power to the siren	Make sure that the AC power supply is connected properly
AC FAILURE	There is no power to gas sensor	Make sure that the AC power supply is connected properly
GSM NET FAIL	The GSM communicator is not able to connect to the cellular network.	i) Move the Panel and GSM unit to another location. ii) Enter and exit the installer menu iii) Disconnect GSM unit and install it again iv) Replace SIM card v) Replace the GSM unit
RSSI LOW	The GSM communicator has detected that GSM network signal is weak	Move the Panel and GSM unit to another location.
AC SUPPLY FAILURE	There is no power and the system is working on backup battery power	Make sure that the AC power supply is connected properly
COMM. FAILURE	A message could not be sent to the monitoring station or to a private telephone (or a message was sent but was not acknowledged)	i) Check telephone cable connection ii) Check that correct telephone number has been dialed. iii) Dial Monitoring Station to check whether or not events are received.
CPU LOW BATTERY	The backup battery within the control panel is weak and must be replaced (see Chapter 7 - Replacing Backup Battery).	i) Check for AC power is available in the Panel. ii) If trouble exists for more than 72 hours, replace the battery pack
CPU TAMPER	The control panel was physically tampered with or its cover was opened, or it was removed from wall.	The control panel is not closed properly. Open the control panel and then close it.
FUSE TROUBLE	The PGM fuse is burnt out or overloaded.	Make sure that the connection load conforms to that specified in the Specifications.
LINE FAILURE	There is a problem with the telephone line	i) Lift the telephone receiver and make sure a telephone line can be heard ii) Check the telephone connection to the control panel

5.2 Dismounting the Control Panel

A. Remove the screw that fastens the front unit to the back unit, see Figure 3.1 (PowerMaster-10) / 3.13 (PowerMaster-30).
B. Remove the 4 screws that fasten the back unit to the mounting surface - see Figure 3.1 (PowerMaster-10) / 3.13 (PowerMaster-30) - and remove the control panel.

5.3 Replacing the Backup Battery

Replacement and first-time insertion of battery pack is similar, see Figure 3.3 (PowerMaster-10) / 3.15 (PowerMaster-30).

With fresh battery pack, correct insertion and tightened battery compartment lid, the TROUBLE indicator should extinguish. However, the “MEMORY” message will now blink in the display (caused by the “tamper” alarm you triggered when opening the battery compartment lid). Clear it by arming the system and immediately disarming.

5.4 Fuse Replacement

The PowerMaster-10 has an internal fuse (the PowerMaster-30 has two internal fuses) that has automatic reset. Therefore, there is no need to replace the fuse(s).

When over current condition occurs, the fuse cuts off the circuit current. Upon fault current being removed for several seconds, the fuse is automatically reset and allows current flow through the circuit again.

5.5 Replacing/Relocating Detectors

Whenever maintenance work involves replacement or re-location of detectors, always perform **a full diagnostic test according to section 3.9.**

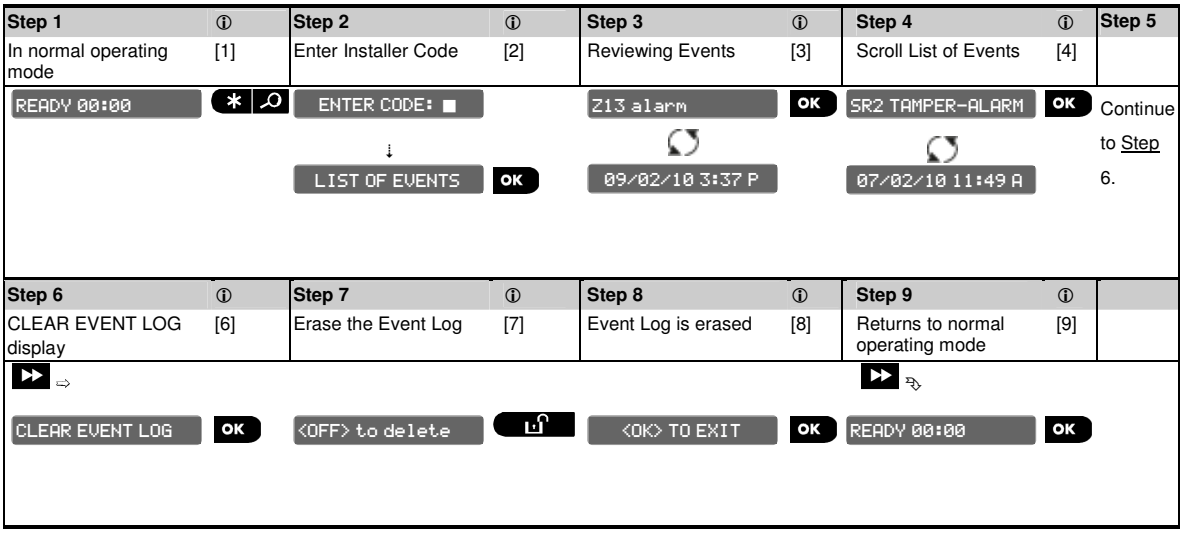
Remember! A "poor" signal is not acceptable, as stated at the end of the introduction to the test procedure.

6 READING THE EVENT LOG

Events are stored in the event log. You can access this log and review the events, one by one. If the event log fills up completely, the oldest event is deleted upon registration of each new event.

The date and time of occurrence are memorized for each event.

When reading the event log, events are shown in chronological order - from the newest to the oldest. Access to the event log is provided by clicking the * button and not through the installer's menu. The reading and erasing process of the event log is shown below.



ⓘ	ⓘ - *Reading Events*
[1]	While the system is in the normal operating mode, press the * key.
	Reading the Event Log
[2]	Enter the current Installer Code and then press OK to enter "**LIST OF EVENTS**".
[3]	The latest event is shown. The event is displayed in two parts, for example, "Z13 alarm" then "09/02/10 3:37 P".
[4]	Press OK repeatedly to scroll through the list of events.
	Erasing and Exiting the Event Log:
[6]	From anywhere within the event log, press the ▶▶ button and then press OK.
[7]	At this stage in the procedure, clicking the ⌂ or 🔓 buttons will take you to "<OK> TO EXIT" without erasing the event log. Clicking the ▶▶ button will revert to "CLEAR EVENT LOG". Press the 🔓 button to erase the event log.
[8]	The system erases the event log
[9]	Press OK to revert to normal operating mode.
	Clicking the ⌂ button repeatedly at any stage in the procedure takes you one level up with each click. Clicking the 🔓 button will take you to "<OK> TO EXIT".

APPENDIX A. Specifications

A1. Functional

	PowerMaster-10	PowerMaster-30
Zones Number	30 wireless zones (including 1 hardwired input).	Up to 64 wireless zones, (including 2 hardwired inputs).
Hardwired Zone Requirements	2.2 kΩ E.O.L. resistance (max. resistance of wires 220 Ω).	2.2 kΩ E.O.L. resistance (max. resistance of wires 220 Ω).
Installer and User Codes	• 1 master installer (9999 by default)* • 1 installer (8888 by default)* • 1 master user, no. 1 (1111 by default) • Users nos. 2 - 8 * Codes must not be identical	• 1 master installer (9999 by default)* • 1 installer (8888 by default)* • 1 master user, no. 1 (1111 by default) • Users nos. 2 - 48 * Codes must not be identical
Control Facilities	- Integral keypad, wireless keyfobs and keypads - SMS commands via optional GSM/GPRS module. - Remote control by telephone. *Note: For SIA CP-01 compliance, when using KF-234 PG2 an external siren must also be used.*	- Integral keypad, wireless keyfobs and keypads - SMS commands via optional GSM/GPRS module. - Remote control by telephone.
Display	Single line, backlit 16-large character LCD.	Single line, backlit 16-large character LCD.
Arming Modes	AWAY, HOME, AWAY-INSTANT, HOME-INSTANT, LATCHKEY, FORCED, BYPASS.	AWAY, HOME, AWAY-INSTANT, HOME-INSTANT, LATCHKEY, FORCED, BYPASS.
Alarm Types	Silent alarm, personal panic/emergency alarm, burglary alarm, gas alarm, fire alarm and flood alarm.	Silent alarm, personal panic/emergency alarm, burglary alarm, gas alarm, fire alarm and flood alarm.
Siren Signals	Continuous (intrusion / 24 hours / panic); triple pulse – short pause - triple pulse... (fire); four pulses – long pause – four pulses... (gas); long pulse – long pause – long pulse... (flood).	Continuous (intrusion / 24 hours / panic); triple pulse – short pause - triple pulse... (fire); four pulses – long pause – four pulses... (gas); long pulse – long pause – long pulse... (flood).
Siren (bell) Timeout	Programmable (4 min. by default)	Programmable (4 min. by default)
Internal Sounder Output	At least 85 dBA at 10 ft (3 m)	At least 85 dBA at 10 ft (3 m)
Supervision	Programmable time frame for inactivity alert	Programmable time frame for inactivity alert
Special Functions	- Chime zones - Diagnostic test and event log. - Local and Remote Programming over Telephone, GSM /GPRS connections. - Calling for help by using an emergency transmitter. - Tracking inactivity of elderly, physically	- Chime zones - Diagnostic test and event log. - Local and Remote Programming over Telephone, GSM /GPRS connections. - Calling for help by using an emergency transmitter. - Tracking inactivity of elderly, physically

	handicapped and infirm people.	handicapped and infirm people. - Message center (recording and playback) - Two-way voice communication
Data Retrieval	Alarm memory, trouble, event log	Alarm memory, trouble, event log
Real Time Clock (RTC)	The control panel keeps and displays time and date. This feature is also used for the log file by providing the date and time of each event	The control panel keeps and displays time and date. This feature is also used for the log file by providing the date and time of each event
Battery Test	Once every 10 seconds	Once every 10 seconds

A2. Wireless

	PowerMaster-10			**PowerMaster-30**		
RF Network	PowerG – 2-way synchronized Frequency Hopping (TDMA / FHSS)			PowerG – 2-way synchronized Frequency Hopping (TDMA / FHSS)		
Frequency bands (MHz)	433 – 434	868 - 869	912 - 919	433 – 434	868 - 869	912 - 919
Hopping frequencies	8	4	50	8	4	50
Region	Worldwide	Europe	North America and selected countries	Worldwide	Europe	North America and selected countries
Encryption	AES-128			AES-128		

A3. Electrical

	PowerMaster-10	**PowerMaster-30**
External AC/AC adaptor	**Europe:** 230VAC 50Hz input, 9VAC 700mA output. **USA:** 120VAC 60Hz input, 9VAC 1000mA output.	NA
External AC/DC adaptor	-	External (wall-mounted) switching power supply 100VAC to 240VAC, 50/60 Hz, 0.5A / 12.5 VDC, 1.6A
Internal AC/DC	Internal switching power supply: Input: 100-240VAC, 0.12 A Max. Output: 7.5VDC, 1.2A Max.	Internal switching power supply: Input: 100-240VAC, 0.5A Output: 12.5 VDC, 1.6A.
Current Drain	Approx. 70 mA standby, 1200 mA peak at full load**.**	Approx. 40 mA standby, 1400 mA at full load.
Backup Battery Pack	4.8V 1300 mAh, rechargeable NiMH battery pack, p/n GP130AAM4YMX, manufactured by GP or equivalent **Caution!** Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the manufacturer's instructions. ***Note:*** *For compliance with UL standards the battery backup period shall exceed 24 hours and 12 hours for compliance with CE standards.*	Backup Battery Options:

Backup period	Maximum external devices current (1)		
	1300 mAh 6 Battery Pack (2)	1800 mAh 8-Battery Pack (3)	2200 mAh 8-Battery Pack (4)
4h	210mA	300mA	380mA
8h	90mA	160 mA	200mA

12h	45mA	90 mA	120 mA
24h	0mA	25 mA	45mA
36h	(no backup)	5mA	15mA
48h	(no backup)	(no backup)	0mA

1 Devices that are connected between 12V terminal and GND of PowerMaster-30, that includes internal GSM and proximity reader.

2 7.2V 1300 mAh, rechargeable NiMH battery pack, p/n GP130AAH6BMX, manufactured by GP.

3 9.6V 1800 mAh, rechargeable NiMH battery pack, p/n GP180AAH8BMX, manufactured by GP.

4 9.6V 2200 mAh, rechargeable NiMH battery pack (special order).

Caution! Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the manufacturer's instructions.

Note: *For compliance with UL standards the battery backup period shall exceed 24 hours and 12 hours for compliance with CE standards.*

Time to Charge	80 % (~ 13 Hrs)	80 % (~ 30 Hrs) for all battery types
Optional Backup Battery Pack	4.8V 2200 mAh, rechargeable NiMH battery pack, p/n GP230AAHC4YMX, manufactured by GP	See "Backup Battery Options" table above
Time to Charge (optional backup battery pack)	80 % (~ 24 Hrs)	NA
Wired Detectors Total (Sum) Current	NA	36* mA max.
Site External Siren Current (EXT)	NA	450* mA max @ 12.5 VDC when powered by AC/DC (10.5 VDC when in standby mode)
Site Internal Siren Current (INT)	NA	450* mA max @ 12.5 VDC when powered by AC/DC (10.5 VDC when in standby mode)

* Total PowerMaster-30 output current (of INT & EXT sirens, PGM output and detectors) cannot exceed 550 mA.

PGM	Current sink to control panel GND 100 mA max.	Current sink to control panel GND 100 mA max.
	Max. external DC voltage +30 VDC	Max. external DC voltage +15 VDC
High Current / Short Circuit Protection	NA	All outputs are protected (automatic reset fuse)

A4. Communication

	PowerMaster-10	PowerMaster-30
Communication	PSTN; GSM; GPRS; IP (for future use)	PSTN; GSM; GPRS; IP (for future use)
Built-in Modem	300 baud, Bell 103 protocol	300 baud, Bell 103 protocol
Data Transfer to Local Computer	Via RS232 serial port	Via RS232 serial port
Report Destinations	2 Monitoring Stations, 4 private telephones	2 Monitoring Stations, 4 private telephones
Reporting Format Options	SIA, Contact ID, Scancom, SIA IP, Visonic PowerNet.	SIA, Contact ID, Scancom, SIA IP, Visonic PowerNet.
Pulse Rate	10, 20, 33 and 40 pps - programmable	10, 20, 33 and 40 pps - programmable
Message to Private Phones	Tone	Tone or voice
Ring Detection	The unit does not support ring detection without DC voltage present on the telephone lines.	The unit does not support ring detection without DC voltage present on the telephone lines

A5. Physical Properties

	PowerMaster-10	PowerMaster-30
Operating Temp. Range	14°F to 120°F (-10°C to 49°C)	14°F to 120°F (-10°C to 49°C)
Storage Temp. Range	-4°F to 140°F (-20°C to 60°C)	-4°F to 140°F (-20°C to 60°C)
Humidity	85% relative humidity, @ 30°C (86°F)	85% relative humidity, @ 30°C (86°F)
Size	196 x 180 x 55 mm (7-5/8 x 7 x 2 in.)	266 x 206 x 63 mm (10-7/16 x 8-18 x 2-1/2 in.)
Weight	658g (23 Oz) (with battery)	1.44Kg (3.2 pounds) (with battery)
Color	White	White

A6. Peripherals and Accessory Devices

	PowerMaster-10	PowerMaster-30
Modules	GSM/GPRS, IP (future use)	GSM/GPRS, IP (future use)
Additional wireless devices	30 detectors, 8 keyfobs, 8 keypads, 2 sirens, 4 repeaters, 8 proximity tags	64 detectors, 32 keyfobs, 32 keypads, 8 sirens, 4 repeaters , 32 proximity tags
Wireless Devices and peripherals (*): *(*) Visonic is currently developing many more devices and peripherals that will be available during 2011.*	**Magnetic Contact:** MC-302 PG2 **Motion Detectors:** Next PG2; Next K9 PG2 **PIR Camera Detectors:** Next CAM PG2; Next CAM-k9 PG2 **Smoke Detector:** SMD-426 PG2/ SMD-427 PG2 **GSM Module:** GSM-350 PG2 **Keyfob:** KF-234 PG2 **Keypad:** KP-140 PG2/KP-141 PG2 (with proximity tag) **Indoor Siren:** SR-720 PG2 **Outdoor Siren:** SR-730 PG2 **Repeater:** RP-600 PG2	**Magnetic Contact:** MC-302 PG2 **Motion Detectors:** Next PG2; Next K9 PG2 **PIR Camera Detectors:** Next CAM PG2; Next CAM-k9 PG2 **Smoke Detector:** SMD-426 PG2/ SMD-427 PG2 **GSM Module:** GSM-350 PG2 **Keyfob:** KF-234 PG2 **Keypad:** KP-140 PG2/KP-141 PG2 (with proximity tag) **Indoor Siren:** SR-720 PG2 **Outdoor Siren:** SR-730 PG2 **Repeater:** RP-600 PG2

APPENDIX B. Detailed Installer Menu Map

Entering the "Installer Mode" and Selecting a Menu Option

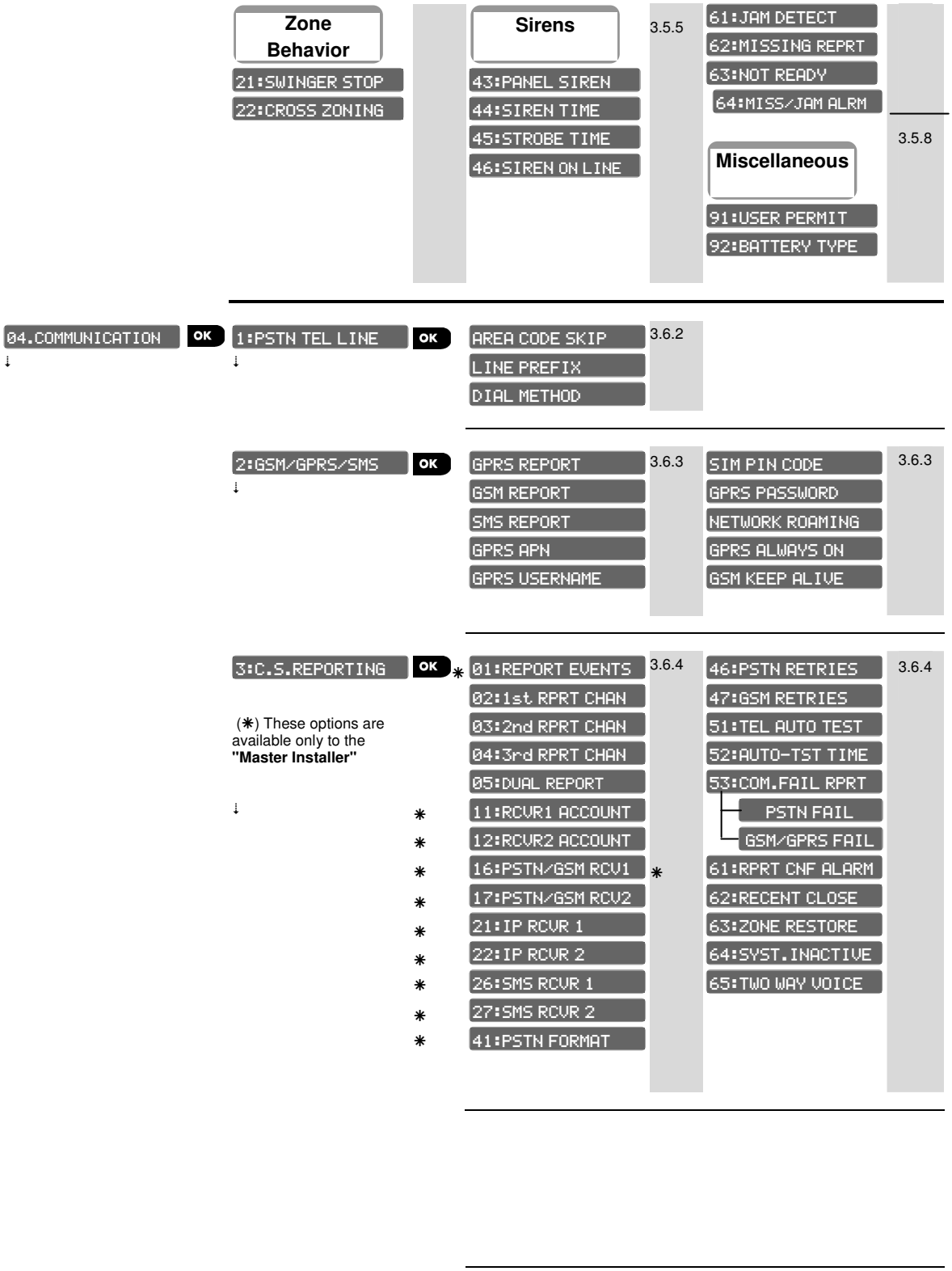
Step 1	Step 2	Step 3
Select "INSTALLER MODE" Option	Enter Installer Code	Select **"Installer Menu"** Option

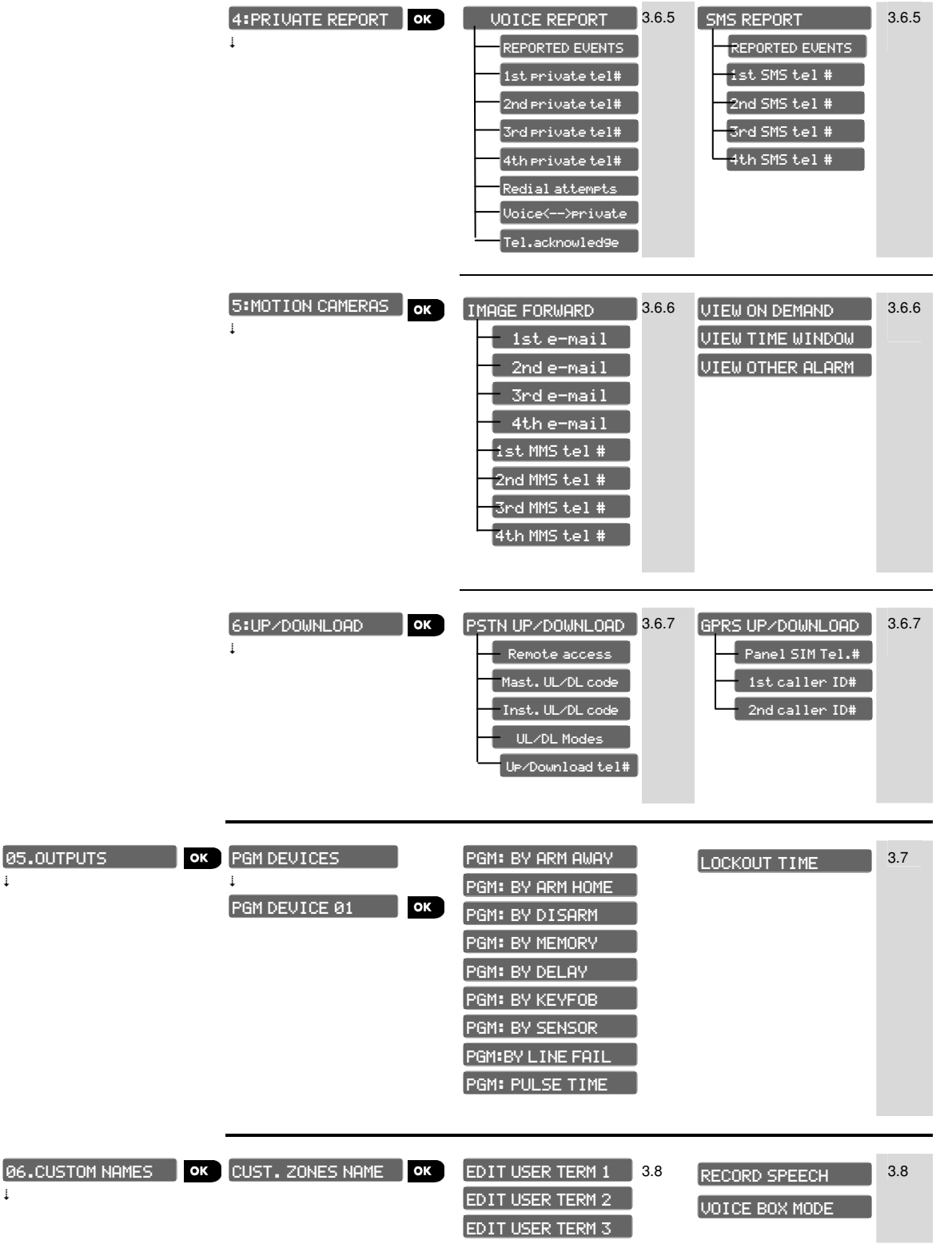
				See section		See section
▶▶	See Section 3.2		▶▶		▶▶	
READY 00:00			01:INSTALL CODES	3.3	08:USER SETTINGS	3.10
↓			02:ZONES/DEVICES	3.4	09:FACTORY DEFLT	3.11
			03:CONTROL PANEL	3.5	10:SERIAL NUMBER	3.12
INSTALLER MODE OK	ENTER CODE:■	OK	04:COMMUNICATION	3.6	11:START UL/DL	3.13
			05:OUTPUTS	3.7	12:PARTITIONING	3.14
			06:CUSTOM NAMES	3.8	<OK> TO EXIT	3.15
			07:DIAGNOSTICS	3.9		

Installer Menu Flow-Chart

Step 3	Step 4
Select **"Installer Menu"** Option	Select the **Option you Wish** to Configure

				See section		See section		See section
▶▶	▶▶		▶▶		▶▶		▶▶	
01.INSTALL CODES OK	NEW MASTER.CODE	3.3						
↓	NEW INST. CODE	3.3						
02.ZONES/DEVICES OK	ADD NEW DEVICES	3.4.2						
↓	DELETE DEVICES	3.4.3						
	MODIFY DEVICES	3.4.4						
	REPLACE DEVICES	3.4.5						
	DEFINE DEFAULTS	3.4.6						
03.CONTROL PANEL OK	**Arming & Disarming**	3.5.2	**Alarms & Troubles**	3.5.4	**User Interface**	3.5.6		
↓	01:ENTRY DELAY1		31:PANIC ALARM		51:PIEZO BEEPS			
	02:ENTRY DELAY2		32:DURESS ALARM		52:TROUBLE BEEPS			
	03:EXIT DELAY		33:INACTIVE ALRT		53:MEMORY PROMPT			
	04:EXIT MODE		34:TAMPER ALARM		54:LOW-BAT ACK			
	05:QUICK ARM		35:AC FAIL REPRT		55:BACK LIGHT			
	06:BYPASS ARM		36:CONFIRM ALARM		56:SCREEN SAVER			
	07:LATCHKEY ARM		37:ABORT TIME					
	08:DISARM OPTION		38:CANCEL ALARM		**Jamming & Supervision**	3.5.7		
		3.5.3	39:ALARM RESET					


Zone Behavior
21:SWINGER STOP
22:CROSS ZONING
Sirens
43:PANEL SIREN
44:SIREN TIME
45:STROBE TIME
46:SIREN ON LINE
3.5.5
61:JAM DETECT
62:MISSING REPRT
63:NOT READY
64:MISS/JAM ALRM
Miscellaneous
91:USER PERMIT
92:BATTERY TYPE
3.5.8
04.COMMUNICATION
OK
1:PSTN TEL LINE
OK
AREA CODE SKIP
LINE PREFIX
DIAL METHOD
3.6.2
2:GSM/GPRS/SMS
OK
GPRS REPORT
GSM REPORT
SMS REPORT
GPRS APN
GPRS USERNAME
3.6.3
SIM PIN CODE
GPRS PASSWORD
NETWORK ROAMING
GPRS ALWAYS ON
GSM KEEP ALIVE
3.6.3
3:C.S.REPORTING
OK
(*) These options are available only to the "Master Installer"
01:REPORT EVENTS
02:1st RPRT CHAN
03:2nd RPRT CHAN
04:3rd RPRT CHAN
05:DUAL REPORT
11:RCVR1 ACCOUNT
12:RCVR2 ACCOUNT
16:PSTN/GSM RCV1
17:PSTN/GSM RCV2
21:IP RCVR 1
22:IP RCVR 2
26:SMS RCVR 1
27:SMS RCVR 2
41:PSTN FORMAT
3.6.4
46:PSTN RETRIES
47:GSM RETRIES
51:TEL AUTO TEST
52:AUTO-TST TIME
53:COM.FAIL RPRT
PSTN FAIL
GSM/GPRS FAIL
61:RPRT CNF ALARM
62:RECENT CLOSE
63:ZONE RESTORE
64:SYST.INACTIVE
65:TWO WAY VOICE
3.6.4


4:PRIVATE REPORT
OK
VOICE REPORT
3.6.5
REPORTED EVENTS
1st private tel#
2nd private tel#
3rd private tel#
4th private tel#
Redial attempts
Voice<-->private
Tel.acknowledge
SMS REPORT
3.6.5
REPORTED EVENTS
1st SMS tel #
2nd SMS tel #
3rd SMS tel #
4th SMS tel #
5:MOTION CAMERAS
OK
IMAGE FORWARD
3.6.6
1st e-mail
2nd e-mail
3rd e-mail
4th e-mail
1st MMS tel #
2nd MMS tel #
3rd MMS tel #
4th MMS tel #
VIEW ON DEMAND
VIEW TIME WINDOW
VIEW OTHER ALARM
3.6.6
6:UP/DOWNLOAD
OK
PSTN UP/DOWNLOAD
3.6.7
Remote access
Mast. UL/DL code
Inst. UL/DL code
UL/DL Modes
Up/Download tel#
GPRS UP/DOWNLOAD
3.6.7
Panel SIM Tel.#
1st caller ID#
2nd caller ID#
05.OUTPUTS
OK
PGM DEVICES
PGM DEVICE 01
OK
PGM: BY ARM AWAY
PGM: BY ARM HOME
PGM: BY DISARM
PGM: BY MEMORY
PGM: BY DELAY
PGM: BY KEYFOB
PGM: BY SENSOR
PGM:BY LINE FAIL
PGM: PULSE TIME
LOCKOUT TIME
3.7
06.CUSTOM NAMES
OK
CUST. ZONES NAME
OK
EDIT USER TERM 1
EDIT USER TERM 2
EDIT USER TERM 3
3.8
RECORD SPEECH
VOICE BOX MODE
3.8

		EDIT USER TERM 4						
		EDIT USER TERM 5						
07.DIAGNOSTICS	OK	WL DEVICES						3.9
↓		GSM / GPRS						
08.USER SETTINGS	OK	USER CODES	C.4	DATE & FORMAT	C.8	PRIVATE REPORT	C.11	
↓		PROXIMITY TAGS	C.5	AUTO-ARM ENABLE	C.9	SQUAWK	C.12	
		KEYFOBS	C.6	AUTO-ARM TIME	C.10	SCHEDULER	C.13	
		TIME & FORMAT	C.7					
		See User's Guide – Chapter 6 corresponding Sections C.4 to C.13						
09.FACTORY DEFLT	OK							3.11
↓								
10.SERIAL NUMBER	OK							3.12
↓								
11.START UL/DL	OK							3.13
↓								
12.PARTITIONING	OK							3.14
↓								
<OK> TO EXIT	OK							3.15
↓								

APPENDIX C. Working with Partitions*

Your PowerMaster-30 system is equipped with an integrated partitioning feature that can divide your alarm system into three distinct areas identified as Partition 1 through 3. Partitioning can be used in installations where shared security systems are more practical, such as a home office or warehouse building. When partitioned, each zone, each user code and many of your system's features can be assigned to Partition 1 to 3.

Note: *When Partition Mode is disabled, all zones, user codes, and features of the PowerMaster-30 will operate as in a regular unit. When partition mode is enabled, all zones, user codes, and features of the PowerMaster-30 are automatically assigned to Partition 1.*

C1. User Interface and Operation

Refer to the PowerMaster-30 User's Guide Appendix A PARTITIONING for a detailed description of the user interface (Arming/Disarming, siren behavior, show function, keyfobs and keypads operation, etc.), in Partition Mode.

C2. Common Areas

Common areas are areas used as walkthrough zones to areas of 2 or more partitions. There may be more than one common area in an installation depending on the layout of the property. A common area is not the same as a partition; it cannot be armed / disarmed directly. Common areas are created when you assign a zone or zones to 2 or 3 partitions. Table A1 summarizes the behavior of the different zone types in a common area.

Table A1 – Common Area Definitions

Common area zone types	Definition
Perimeter	• Acts as defined only after the last assigned partition is armed AWAY or HOME. • In case that one of the partitions is disarmed, an alarm initiated from this zone is ignored for all assigned partitions.
Delay zones	• Delay zones will not trigger an entry delay unless all assigned partitions are armed. It is, therefore, not recommended to define delay zones as common areas.
Perimeter follower	• Act as defined only after the last assigned partition is armed AWAY or HOME. • In case that one of the partitions is disarmed, an alarm initiated from this zone is ignored for all assigned partitions. • In case that one of the common area assigned partitions is in a delay state (and the other partitions are armed), the alarm will behave as a perimeter follower for this partition only. The event will be ignored for other assigned armed partitions.
Interior	• Acts as defined only after the last assigned partition is armed AWAY. • In case that one of the partitions is disarmed or armed HOME, an alarm initiated from this zone is ignored for all assigned partitions.
Interior follower	• Acts as defined only after the last assigned partition is armed AWAY. • In case that one of the partitions is disarmed or armed HOME, an alarm initiated from this zone is ignored for all assigned partitions. • In case that one of the common area assigned partitions is in a delay state (and the other partitions are armed), the alarm will behave as an interior follower for this partition only. The event will be ignored for other assigned armed partitions.
Home / Delay	• Acts as a Perimeter-Follower type when all assigned partitions are armed AWAY. • Acts as a Delay type when at least one of the assigned partitions is armed HOME. • Will be ignored when at least one of the assigned partitions is disarmed.

* Refers to PowerMaster-30 only

Common area zone types	Definition
Emergency **Fire** **Flood** **Gas** **Temperature** **24-hour silent** **24-hour audible** **Non-alarm**	• Always armed.

APPENDIX D. Detector Deployment & Transmitter Assignments

D1. Detector Deployment Plan

Zone No.	Zone Type	Sensor Location or Transmitter Assignment (in non-alarm or emergency zones)	Chime (Yes / No)
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
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37.			

Zone No.	Zone Type	Sensor Location or Transmitter Assignment (in non-alarm or emergency zones)	Chime (Yes / No)
38.			
39.			
40.			
41.			
42.			
43.			
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64.			

Zone Types: *1 = Exit / Entry 1 ✱ 2 = Exit / Entry 2 ✱ 3 = Home Delay ✱ 4 = Interior Follower ✱ 5 = Interior ✱ 6 = Perimeter ✱ 7 = Perimeter Follower ✱ 8 = 24hr Silent ✱ 9 = 24hr Audible ✱ 10 = Emergency ✱ 11 = Arming Key ✱ 12 = Non-Alarm ✱ 17 = Guard Key box.*

Zone Locations: *Note down the intended location for each detector. When programming, you may select one of 26 available locations (plus 5 custom locations that you can add – see "02:ZONES/DEVICES" menu).*

Note: *There is only 1 hardwired zone in PowerMaster-10 and 2 hardwired zones in PowerMaster-30.*

D2. Keyfob Transmitter List

Transmitter Data			AUX button Assignments
No.	**Type**	**Holder**	**Skip exit delay or Arming "instant"**
1			Indicate the desired function (if any)
2			
3			
4			
5			
6			**Skip exit delay** ☐
7			**Arming "instant"** ☐
8			

D3. Emergency Transmitter List

Tx #	Transmitter Type	Enrolled to Zone	Name of holder
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

D4. Non-Alarm Transmitter List

Tx #	Transmitter Type	Enrolled to Zone	Name of holder	Assignment
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

APPENDIX E. Event Codes

E1. Contact ID Event Codes

Code	Definition
101	Emergency
110	Fire
114	Heat
120	Panic
121	Duress
122	Silent
123	Audible
131	Perimeter
132	Interior
134	Entry/Exit
137	Tamper/CP
139	Burglary verified
151	Gas alarm
152	Freezer alert
154	Flood alarm
158	High temperature
159	Low temperature
180	Gas trouble
301	AC loss
302	Low system battery
311	Battery disconnect
313	Engineer reset
321	Bell

Code	Definition
344	RF receiver jam detect
350	Communication trouble
351	Telco fault
373	Fire detector trouble
380	Sensor trouble
381	Inactive event
383	Sensor tamper
384	RF low battery
393	Fire detector clean me
401	O/C by user
403	Auto arm
406	Cancel
408	Quick arm
426	Door open event
441	Armed home
454	Fail to close
455	Fail to arm
456	Partial arm
459	Recent close event
570	Bypass
602	Periodic test report
607	Walk test mode
641	Senior watch trouble

E2. SIA Event Codes

Code	Definition
AR	AC Restore
AT	AC Trouble
BA	Burglary Alarm
BB	Burglary Bypass
BC	Burglary Cancel
BR	Burglary Restore
BT	Burglary Trouble / Jamming
BV	Burglary Verified
BZ	Inactive event
CF	Forced Closing
CG	Armed home
CI	Fail to Close
CL	Armed Away
CP	Auto Arm
CR	Recent Close
EA	Door Open
FA	Fire Alarm
FT	Fire Detector Clean
FJ	Fire detector trouble
FR	Fire Restore
GA	Gas alarm
GR	Gas alarm restore
GT	Gas trouble
GJ	Gas trouble restore
HA	Holdup Alarm (duress)
KA	Heat alarm
KH	Heat alarm restore
KT	Heat trouble
KJ	Heat trouble restore

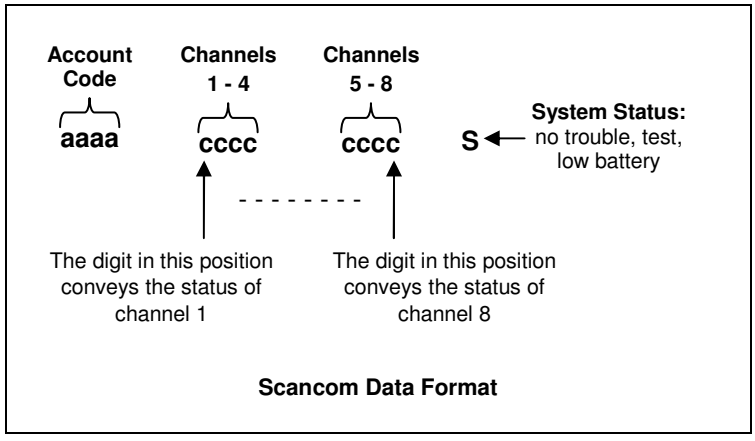
Code	Definition
LR	Phone Line Restore
LT	Phone Line Trouble
OP	Opening Report
OT	Fail to Arm
PA	Panic Alarm
PR	Panic Restore
QA	Emergency Alarm
RN	Engineer Reset
RP	Automatic Test
RX	Manual Test
RY	Exit from Manual Test
TA	Tamper Alarm
TR	Tamper Restore
UJ	Detector mask restore
YM	System battery disconnect
UT	Detector mask
WA	Flood alarm
WR	Flood alarm restore
XR	Sensor Battery Restore
XT	Sensor Battery Trouble
YR	System Battery Restore
YT	System Battery Trouble / Disconnection
YX	Service Required
ZA	Freeze alarm
ZH	Freeze alarm restore
ZJ	Freeze trouble restore
ZR	Freeze restore
ZT	Freeze trouble

E3. Understanding the Scancom Reporting Protocol Data Format

The SCANCOM data format consists of 13 decimal digits divided into 4 groups, from left to right, as shown at the right side.

Each channel is associated with a specific event as follows:

1st "C": Fire
2nd "C": Personal attack
3rd "C": Intruder
4th "C": Open/close
5th "C": Alarm cancel
6th "C": Emergency
7th "C": Second alarm
8th "C": Trouble messages



Scancom Data Format

APPENDIX F. Glossary

This list of terms is arranged in alphabetical order. Any term indicated by cursive (italic) letters within the explanatory text can be looked up separately.

Abort Period: When an alarm is initiated, the internal sounder is activated first for a limited period of time which is the abort period set by the installer. If you cause an alarm accidentally, you can disarm the system within the abort period before the real sirens start and before the alarm is reported to the *remote responders.*

Alarm: There are 2 kinds of alarms:

Loud alarm - both internal and external sirens blare out constantly and the control panel reports the event by telephone.

Silent alarm - the sirens remain silent, but the control panel reports the event by telephone.

A state of alarm is caused by:

- Motion detected by a *motion detector*
- Change of state detected by a *magnetic contact detector* - a closed window or door is opened
- Detection of smoke by a *smoke detector*
- *Tampering* with any one of the detectors
- Pressing the two emergency buttons simultaneously (panic).

Arming: Arming the alarm system is an action that prepares it to sound an alarm if a zone is “violated” by motion or by opening a door or window, as the case may be. The control panel may be armed in various modes (see *AWAY, HOME, INSTANT* and *LATCHKEY*).

Assigned: Refers to zones.

Associated: Refers to devices.

AWAY: This type of arming is used when the protected site is vacated entirely. All zones, *interior* and *perimeter* alike, are protected.

Chime Zones: Allow you to keep track of activity in the protected area while the alarm system is in the disarmed state. Whenever a chime zone is "opened", the buzzer beeps twice. The buzzer does not beep, however, upon closing the zone (return to normal). Residences can use this feature to annunciate visitors or look after children. Businesses can use it to signal when customers enter the premises or when personnel enter restricted areas.

Note: *Your installer will never designate a 24-hour zone or a fire zone as a chime zone, because both zone types actuate an alarm if disturbed while the system is in the disarmed state.*

Although one zone or more are designated as chime zones, you can still enable or disable the chime function.

Communicators: Refers to communication channel, for example, GSM.

Control Panel: The control panel is a cabinet that incorporates the electronic circuitry and microprocessor that control the alarm system. It collects information from various sensors, processes it and responds in various ways. It also includes the user-interface - control keys, numerical keypad, display, sounder and loudspeaker.

Default Settings: Settings that are applicable to a specific device group.

Detector: The device (apparatus) that sends an alarm, that communicates with the control panel (for example, Tower 20 AM is a motion detector, MCT-425 is a smoke detector)

Disarming: The opposite of arming - an action that restores the control panel to the normal standby state. In this state, only *fire and 24-hour zones* will sound an alarm if violated, but a *“panic alarm*” may also be initiated.

Disturbed Zone: A zone in a state of alarm (this may be caused by an open window or door or by motion in the field of view of a motion detector). A disturbed zone is considered “not secured”.

Forced Arming: When any one of the system zones is *disturbed* (open), the alarm system cannot be armed. One way to solve this problem is to find and eliminate the cause for zone disturbance (closing doors and windows). Another way to deal with this is to impose **forced arming** - automatic de-activation of zones that are still *disturbed* upon termination of the exit delay. Bypassed zones will not be protected throughout the arming period. Even if restored to normal (closed), bypassed zones will remain unprotected until the system is disarmed.

Permission to “force arm” is given or denied by the installer while programming the system.

HOME: This type of arming is used when people are present within the protected site. A classic example is night-time at home, when the family is about to retire to bed. With HOME arming, perimeter zones are protected but interior zones are not. Consequently, motion within interior zones will be ignored by the control panel, but disturbance of a perimeter zone will cause an alarm.

Instant: You can arm the system AWAY-INSTANT or HOME-INSTANT, thereby canceling the entry delay for all delay zones for the duration of one arming period.

For example, you may arm the control panel in the HOME-INSTANT mode and remain within the protected area. Only perimeter protection is active, and if you do not expect somebody to drop in while the system is armed, alarm upon entry via the main door is an advantage.

To disarm the system without causing an alarm, use your control keypad (which is normally accessible without disturbing a perimeter zone) or use a keyfob transmitter.

Latchkey: The Latchkey mode is a special arming mode in which designated "latchkey users" will trigger a "latchkey message" to be sent to a telephone or a pager when they disarm the system.

For example, if a parent wants to be sure that their child has returned from school and disarmed the system. Latchkey arming is only possible when the system is armed in the AWAY mode.

Location: Assigning a named location to a device (for example, Garage, Front Door etc.)

Magnetic Contact Detector, Wireless: A Magnet- controlled switch and a wireless PowerG transmitter in a shared housing. The detector is mounted on doors and windows to detect changes in state (from closed to open and vice versa). Upon sensing that a door or window is open, the detector transmits its unique identification code accompanied by an “alarm” signal and various other status signals to the control panel.

The control panel, if not armed at that time, will consider the alarm system as “not ready for arming” until it receives a “restored” signal from the same detector.

Motion Detector, Wireless: A passive Infrared motion sensor and a wireless PowerG transmitter in a shared housing. Upon sensing motion, the detector transmits its unique identification code, accompanied by an alarm signal and various other status signals to the control panel. After transmission, it stands by to sense further motion.

Non-Alarm Zone: Your installer can designate a zone for roles other than alarm. For instance, a motion detector installed in a dark stairway may be used to switch on lights automatically when someone crosses the dark area. Another example is a miniature wireless transmitter linked to a zone that controls a gate opening mechanism.

Quick Arming: Arming without a user code. The control panel does not request your user code when you press one of the arming buttons. Permission to use this arming method is given or denied by the installer while programming the system.

Remote Responder: A responder can be either a professional service provider to which the home or business owner subscribes (*a Monitoring Station*) or a family relation/friend who agrees to look after the protected site during absence of its occupants. The *control panel* reports events by telephone to both kinds of responders.

Restore: When a detector reverts from the state of alarm to the normal standby state, it is said to have been “restored”.

A *motion detector* restores automatically after detection of movement, and becomes ready to detect again. This kind of “restore” is not reported to the remote *responders*.

A *magnetic contact detector* restores only upon closure of the protected door or window. This kind of “restore” is reported to the remote *responders*.

Sensor: The sensing element: pyroelectric sensor, photo-diode, microphone, smoke optical sensor etc.

Signal Strength: The quality link communication between the system components and the control panel.

Smoke Detector, Wireless: A regular smoke detector and a wireless PowerG transmitter in a shared housing. Upon detection of smoke, the detector transmits its unique identification code accompanied by an alarm signal and various status signals to the *control panel*. Since the smoke detector is linked to a special *fire zone*, a fire alarm is initiated.

State: AWAY, HOME, AWAY-INSTANT, HOME-INSTANT, LATCHKEY, FORCED, BYPASS.

Status: AC fail, low battery, trouble, etc

User Codes: The PowerMaster-10 / PowerMaster-30 is designed to obey your commands, provided that they are preceded by a valid security access code.

Unauthorized people do not know this code, so any attempt on their part to *disarm* or defeat the system is bound to fail. Some operations, however, can be carried out without a user code as they do not degrade the security level of the alarm system.

Zone: A zone is an area within the protected site under supervision of a specific detector. During programming, the installer allows the *control panel* to learn the detector’s identity code and links it to the desired zone. Since the zone is distinguished by number and name, the control panel can report the zone status to the user and register in its memory all the events reported by the zone detector. Instant and delay zones are “on watch” only when the control panel is armed, and other (*24-hour*) *zones* are “on watch” regardless of whether the system is armed or not.

Zone Type: The zone type determines how the system handles alarms and other signals sent from the device.

APPENDIX G. Default and Programmed Zone Definitions

Zone	Zone Type		Location		Chime (melody
No.	Default	Programmed	Default	Programmed	Location or Off) (*)
1	Delay 1		Front Door		
2	Delay 1		Garage		
3	Delay 2		Garage Door		
4	Perimeter		Back Door		
5	Perimeter		Child Room		
6	Interior		Office		
7	Interior		Dining Room		
8	Perimeter		Dining Room		
9	Perimeter		Kitchen		
10	Perimeter		Living Room		
11	Interior		Living Room		
12	Interior		Bedroom		
13	Perimeter		Bedroom		
14	Perimeter		Guest Room		
15	Interior		Master Bedroom		
16	Perimeter		Master Bedroom		
17	Perimeter		Laundry Room		
18	Perimeter		Master Bathroom		
19	Perimeter		Basement		
20	24 h / audible		Fire		
21	24 h / audible		Fire		
22	Emergency		Emergency		
23	Emergency		Emergency		
24	24 h / silent		Basement		
25	24 h / silent		Office		
26	24 h / audible		Attic		
27	24 h / audible		Den		
28	non-alarm		Yard		
29	non-alarm		Hall		
30	non-alarm		Utility room		

**** Note:** All zones are CHIME OFF by default. Enter your own choice in the last column and program accordingly.*

Industry Canada Declaration

This product meets the applicable Industry Canada technical specifications/Le présent materiel est conforme aux specifications techniques appliables d'Industrie Canada.

The Ringer Equivalence Number is an indication of the maximum number of devices allowed to be connected to a telephone interface. The termination on an interface may consist of any combination of devices subject only to the requirement that the sum of the RENs of all the devices does not exceed five/L'indice d'équivalence de la sonnerie (IES) sert à indiquer le nombre maximal de terminaux qui peuvent être raccordés à une interface téléphonique. La terminaison d'une interface peut consister en une combinaison quelconque de dispositifs, à la seule condition que la somme d'indices d'équivalence de la sonnerie de tous les dispositifs n'excède pas 5.

The Ringer Equivalence Number (REN) for this terminal equipment is 0.3B.

This device complies with FCC Rules Part 15 and with Industry Canada licence-exempt RSS standard(s). Operation is subject to two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference that may be received or that may cause undesired operation.

This device has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in residential installations. 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 and television reception.

However, there is no guarantee that interference will not occur in a particular installation. If this device does cause such interference, which can be verified by turning the device off and on, the user is encouraged to eliminate the interference by one or more of the following measures:

– Re-orient or re-locate the receiving antenna.
– Increase the distance between the device and the receiver.
– Connect the device to an outlet on a circuit different from the one that supplies power to the receiver.
– Consult the dealer or an experienced radio/TV technician.

WARNING! *Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.*

WARRANTY

Visonic Limited (the "Manufacturer") warrants this product only (the "Product") to the original purchaser only (the "Purchaser") against defective workmanship and materials under normal use of the Product for a period of twelve (12) months from the date of shipment by the Manufacturer.

This Warranty is absolutely conditional upon the Product having been properly installed, maintained and operated under conditions of normal use in accordance with the Manufacturers recommended installation and operation instructions. Products which have become defective for any other reason, according to the Manufacturers discretion, such as improper installation, failure to follow recommended installation and operational instructions, neglect, willful damage, misuse or vandalism, accidental damage, alteration or tampering, or repair by anyone other than the manufacturer, are not covered by this Warranty.

The Manufacturer does not represent that this Product may not be compromised and/or circumvented or that the Product will prevent any death and/or personal injury and/or damage to property resulting from burglary, robbery, fire or otherwise, or that the Product will in all cases provide adequate warning or protection. The Product, properly installed and maintained, only reduces the risk of such events without warning and it is not a guarantee or insurance that such events will not occur.

THIS WARRANTY IS EXCLUSIVE AND EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, OBLIGATIONS OR LIABILITIES, WHETHER WRITTEN, ORAL, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR OTHERWISE. IN NO CASE SHALL THE MANUFACTURER BE LIABLE TO ANYONE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS WARRANTY OR ANY OTHER WARRANTIES WHATSOEVER, AS AFORESAID.

THE MANUFACTURER SHALL IN NO EVENT BE LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL, CONSEQUENTIAL OR PUNITIVE DAMAGES OR FOR LOSS, DAMAGE, OR EXPENSE, INCLUDING LOSS OF USE, PROFITS, REVENUE, OR GOODWILL, DIRECTLY OR INDIRECTLY ARISING FROM PURCHASER'S USE OR INABILITY TO USE THE PRODUCT, OR FOR LOSS OR DESTRUCTION OF OTHER PROPERTY OR FROM ANY OTHER CAUSE, EVEN IF MANUFACTURER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. THE MANUFACTURER SHALL HAVE NO LIABILITY FOR ANY DEATH, PERSONAL AND/OR BODILY INJURY AND/OR DAMAGE TO PROPERTY OR OTHER LOSS WHETHER DIRECT, INDIRECT, INCIDENTAL, CONSEQUENTIAL OR OTHERWISE, BASED ON A CLAIM THAT THE PRODUCT FAILED TO FUNCTION.

However, if the Manufacturer is held liable, whether directly or indirectly, for any loss or damage arising under this limited warranty, **THE MANUFACTURER'S MAXIMUM LIABILITY (IF ANY) SHALL NOT IN ANY CASE EXCEED THE PURCHASE PRICE OF THE PRODUCT,** which shall be fixed as liquidated damages and not as a penalty, and shall be the complete and exclusive remedy against the Manufacturer.

When accepting the delivery of the Product, the Purchaser agrees to the said conditions of sale and warranty and he recognizes having been informed of.

Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so these limitations may not apply under certain circumstances.

The Manufacturer shall be under no liability whatsoever arising out of the corruption and/or malfunctioning of any telecommunication or electronic equipment or any programs.

The Manufacturers obligations under this Warranty are limited solely to repair and/or replace at the Manufacturer's discretion any Product or part thereof that may prove defective. Any repair and/or replacement shall not extend the original Warranty period. The Manufacturer shall not be responsible for dismantling and/or reinstallation costs. To exercise this Warranty the Product must be returned to the Manufacturer freight pre-paid and insured. All freight and insurance costs are the responsibility of the Purchaser and are not included in this Warranty.

This warranty shall not be modified, varied or extended, and the Manufacturer does not authorize any person to act on its behalf in the modification, variation or extension of this warranty. This warranty shall apply to the Product only. All products, accessories or attachments of others used in conjunction with the Product, including batteries, shall be covered solely by their own warranty, if any. The Manufacturer shall not be liable for any damage or loss whatsoever, whether directly, indirectly, incidentally, consequentially or otherwise, caused by the malfunction of the Product due to products, accessories, or attachments of others, including batteries, used in conjunction with the Products. This Warranty is exclusive to the original Purchaser and is not assignable.

This Warranty is in addition to and does not affect your legal rights. Any provision in this warranty which is contrary to the Law in the state or country were the Product is supplied shall not apply.

Warning: The user must follow the Manufacturer's installation and operational instructions including testing the Product and its whole system at least once a week and to take all necessary precautions for his/her safety and the protection of his/her property.

1/08

The technical documentation as required by the European Conformity Assessment procedure is kept at:
UNIT 6 MADINGLEY COURT CHIPPENHAM DRIVE KINGSTON MILTON KEYNES MK10 0BZ. Telephone number: 0870 7300800,
Fax number: 0870 7300801

VISONIC LTD. (ISRAEL): P.O.B 22020 TEL-AVIV 61220 ISRAEL. PHONE: (972-3) 645-6789, FAX: (972-3) 645-6788

VISONIC INC. (U.S.A.): 65 WEST DUDLEY TOWN ROAD, BLOOMFIELD CT. 06002-1376. PHONE: (860) 243-0833, (800) 223-0020 FAX: (860) 242-8094

VISONIC LTD. (UK): UNIT 6 MADINGLEY COURT CHIPPENHAM DRIVE KINGSTON MILTON KEYNES MK10 0BZ. TEL: (0870) 7300800 FAX: (0870) 7300801.

VISONIC GMBH (D): KIRCHFELDSTR. 118, D-42015 DÜSSELDORF, GERMANY, FAX (0211) 60069619 Email: info-dach@visonic.com

VISONIC IBERICA: ISLA DE PALMA, 32 NAVE 7, POLÍGONO INDUSTRIAL NORTE, 28700 SAN SEBASTIÁN DE LOS REYES, (MADRID), ESPAÑA. TEL (34) 91659-3120, FAX (34) 91663-8468. www.visonic-iberica.es

INTERNET: www.visonic.com

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