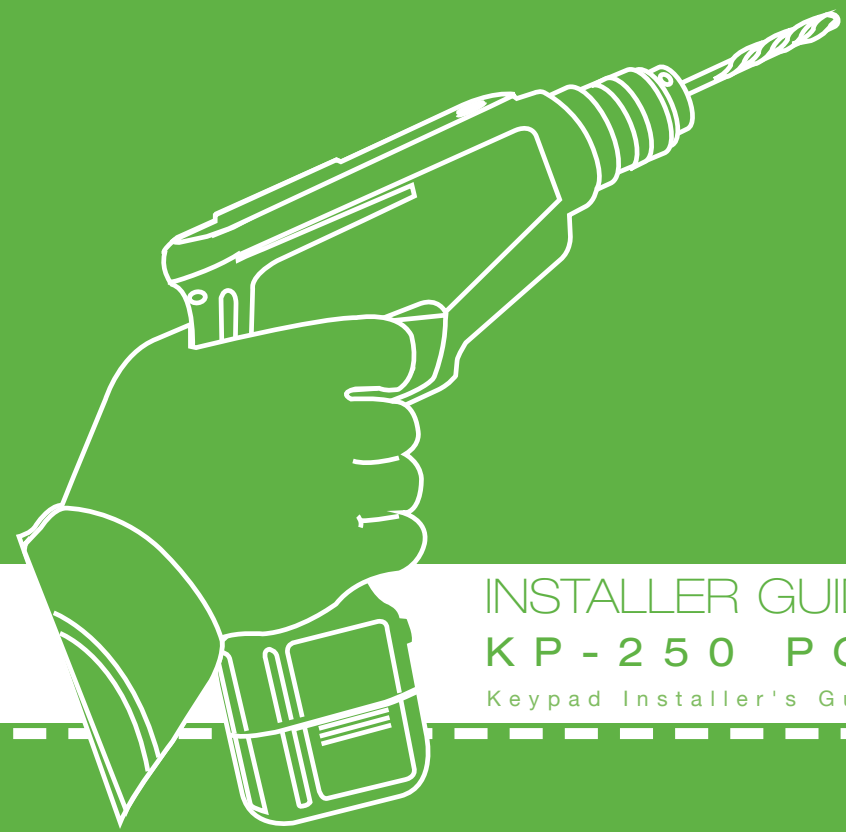


INSTALLER GUIDE

KP-250 PG2

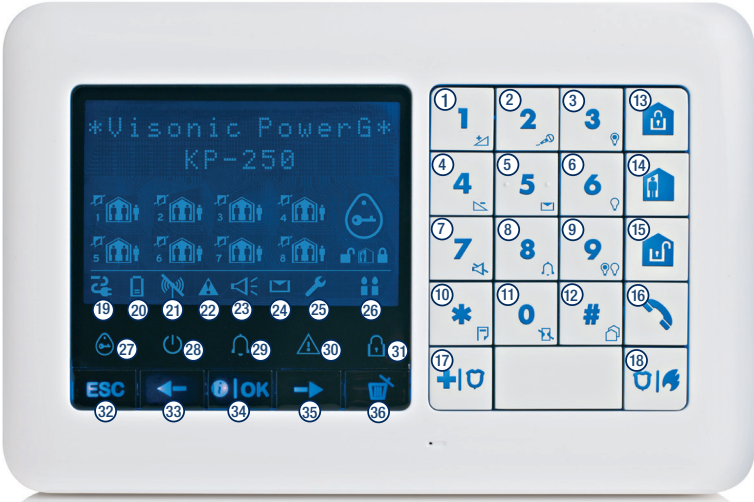
Keypad Installer's Guide

Visonic

From Tyco Security Products

www.visonic.com

Quick Reference Guide



1. Volume up
2. Record a message
3. PGM on
4. Volume down
5. Play a message
6. PGM off
7. PowerMaster Mute speaker
8. Chime ON / OFF
9. PGM control
10. Event log / enroll button
11. Instant
12. Partition selection
13. ARM AWAY
14. ARM HOME
15. DISARM
16. Dialer to call telephone numbers (for future use)
17. EMERGENCY
18. FIRE ALARM
19. AC failure
20. low battery
21. Communication failure: out of range of panel
22. System Trouble
23. Memory / Alarm in partition or system
24. A message is waiting in the control panel
25. The system is in INSTALLER MODE or USER SETTINGS
26. Sabbath mode
27. Instructs the user to present the proximity tag (at the position of this indication)
28. AC ON
29. Chime ON / OFF status
30. System Trouble
31. ARM AWAY
32. Escape
33. Previous
34. Info. / OK
35. Next
36. Discard / abort

Arming and Disarming the System

Icon/Key Indications	Arming Indication
	ARM AWAY
	ARM HOME
	DISARM
 The icons appear consecutively	EXIT DELAY

Programming Functionality

Key	String Editor Functionalityl
0	‘ ’, ‘0’
1	‘.’, ‘,’, ‘1’
2	‘a’, ‘A’, ‘b’, ‘B’, ‘c’, ‘C’, ‘2’
3	‘d’, ‘D’, ‘e’, ‘E’, ‘f’, ‘F’, ‘3’
4	‘g’, ‘G’, ‘h’, ‘H’, ‘i’, ‘I’, ‘4’
5	‘j’, ‘J’, ‘k’, ‘K’, ‘l’, ‘L’, ‘5’
6	‘m’, ‘M’, ‘n’, ‘N’, ‘o’, ‘O’, ‘6’
7	‘p’, ‘P’, ‘q’, ‘Q’, ‘r’, ‘R’, ‘s’, ‘S’, ‘7’
8	‘t’, ‘T’, ‘u’, ‘U’, ‘v’, ‘V’, ‘8’
9	‘w’, ‘W’, ‘x’, ‘X’, ‘y’, ‘Y’, ‘z’, ‘Z’, ‘9’
#	Short press: toggles between **Insert** and **overwrite**. Long press: **Changes** between **lowercase** letters (a,b,c…z) and **uppercase** letters (A,B,C…Z)
*****	‘!’, ‘#’, ‘%’, ‘&’, ‘”’, ‘*’, ‘+’, ‘-’, ‘/’, ‘=’, ‘^’, ‘@’, ‘␣’, ‘’’, “:”
–►	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
OK	**Confirms and saves** the edited string and reverts to previous menu
ESC	**Exiting** the edit screen and moves one level up to previous or top menu without saving the edit string
	Clears digits of the string

English

KP-250 PG2

Advanced Two-Way Keypad

Visonic

Installer's Guide

Table of Contents

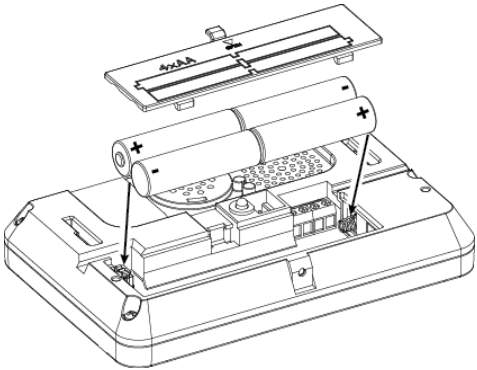
1. Introduction

KP-250 PG2 is a 2-way wireless PowerG keypad display device for use with the PowerMaster-10 G2 / PowerMaster-30 G2 / PowerMaster-33 G2 control panel (version 18 and higher). Up to 10 KP-250 PG2 keypads can be enrolled in the PowerMaster system. The PowerMaster-10 G2, PowerMaster-30 G2, and PowerMaster-33 G2 are a highly advanced wireless alarm control panels produced by Visonic Ltd.

2. Installation

Before performing any of the installation procedures below, remove the unit from its bracket by sliding the unit upward.

2.1 Inserting Battery

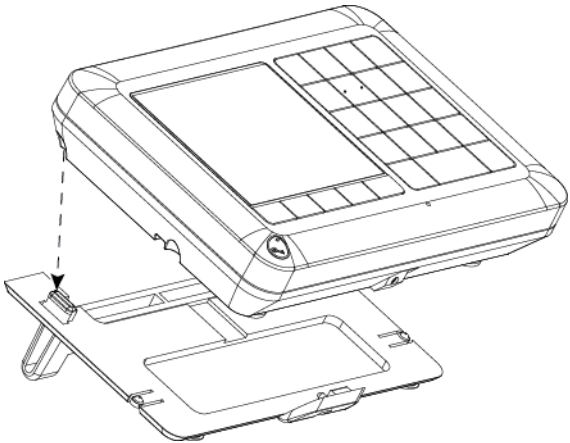


Open the battery cover and insert the 4 batteries according to the illustration on the battery cover.

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

Figure 1 – Battery Insertion

2.2 Desktop Installation

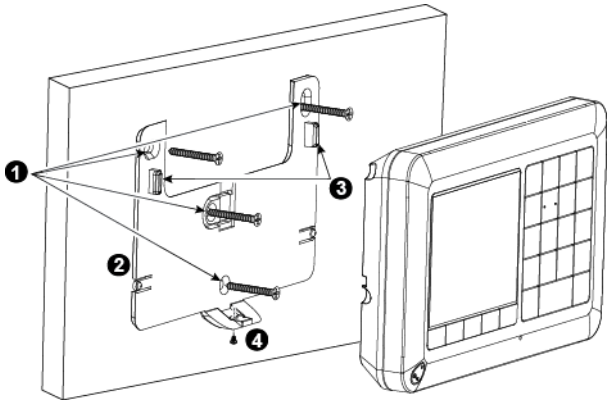


Line the two slots of the unit with the two hinges of the bracket (1 of 2 is shown in Figure 2), and then slide the unit downward on the bracket.

Figure 2 – Desktop Installation

2.3 Wall Mounting

The KP-250 PG2 is mounted as illustrated in the following drawing.



1. Drill 4 mounting holes

2. Position the bracket and secure with 4 screws

3. Line the two slots of the unit with the two hinges of the bracket, and then slide the unit downward on the bracket.

4. Secure the unit with the screw

Figure 3 – Wall Mounting

2.4 Enrollment of the KP-250 PG2 Keypad in PowerMaster-10/30 G2

Refer to section 5.4 of the PowerMaster-10/30 G2 Installer Guide and follow the procedure under the "**02:ZONES/DEVICES**" option of the Installer Menu. A flowchart of the procedure is provided below.

Step	Action	LCD Display
1	Enter the Installer Mode in the PowerMaster panel and select "**02:ZONES/DEVICES**"	**02:ZONES/DEVICES** ⇨
2	Select "**ADD NEW DEVICES**" Option See Note	**ADD NEW DEVICES** ⇨ ↓ **MODIFY DEVICES**
3	Enroll the device by pressing the ✱ (AUX) button for about 5 seconds until the LED turns ON and then release the button, or enter the 7-digit ID code that appears on the sticker on the back of the device	**ENROLL NOW or** ⇨ **ENTR ID:XXX-XXXX**
	The display reads [**DEVICE ENROLLED**] for a short duration and then changes to read the tag's details	**DEVICE ENROLLED**

4	Select the desired Keypad Number	**K02:LCD Keypad** ⇨ **ID No. 375-1813**
5	Configure the settings of the device	**K02.DEV SETTINGS**
6	Configure the Keypad	See section 2.7

⇨ means scroll ▶▶ and select OK

Note: *If the KP-250 PG2 is already enrolled, you can configure the KP-250 PG2 parameters via the "Modify Devices" option – see Step 2.*

2.5 Enrollment of the First KP-250 PG2 Keypad in PowerMaster-33 G2

The PowerMaster-33 G2 is designed to operate wirelessly with the KP-250 PG2 keypad installed anywhere within the protected premises.

The first keypad is always enrolled as Keypad no. 1.

Note: *The enrollment procedure described here is for the first KP-250 PG2 keypad only. The enrollment of additional keypads is performed via the first enrolled KP-250 PG2 keypad (for instructions, see section 3.4.2).*

Step	Action
1	Press the "ENROLL" button (physically located inside the front unit of the PowerMaster-33 G2 control panel – see Figure 3.1 in the PowerMaster-33 G2 Installer Guide) for 2 seconds. If no keypad exists in the first location, the "ENROLL" LED on the PowerMaster-33 G2 blinks slowly for one minute (go to step 3). If a keypad already exists in the first location, the "ENROLL" LED on the PowerMaster-33 G2 control panel lights steady for 10 seconds (go to step 2). ***Note:*** *Pressing the "ENROLL" button takes the system out of any menu mode (Installer Mode, User Settings and Periodic Test).*
2	Press the "ENROLL" button again within the timeout period (10 seconds). Any keypad that was enrolled in keypad no. 01 is deleted from the system. The "ENROLL" LED on the PowerMaster-33 G2 blinks slowly for 1 minute.
3	During this 1 minute period, hold the * button on the KP-250 PG2 keypad for 5-7 seconds until the ⏻ LED on the keypad lights red, and release[1]. The "ENROLL" LED on the PowerMaster-33 G2 will indicate the result of the enrollment procedure. **PowerMaster-33 G2 "ENROL" LED indication** — **Result** Blinks fast for 5 sec. — Successful enrollment of keypad Lights steadily for 5 sec. — Wrong device type

[1] **KP-250 PG2 unit is battery-powered:** press any button on the KP-250 PG2 keypad momentarily to take the KP-250 PG2 keypad out of sleep mode and then hold the * button for 5-7 seconds, until the ⏻ LED on the keypad lights red, and release.

4 Upon completion of the enrolling procedure, the keypad's software version is checked by the panel and if found incompatible it will be remotely upgraded by the panel. If the keypad's software version is compatible with the panel's software version, this step will be automatically skipped.

This procedure will take several minutes.

Note: *Do not turn off or reset the panel or keypad during this procedure.*

Note: *A keypad in Low Battery state will not be upgraded.*

Note: *KP-250 software upgrade capability is supported from KP-250 version 2.019 and PowerMaster panel version 19.3 or higher.*

5 Upon completion of the enrolling procedure and SW versions adjustment procedure, the keypad is ready for immediate use even if the system is currently in the Armed state.

Note: *If the keypad was previously enrolled, it will be relocated automatically to Keypad no. 1. However, all of the configured parameters will be lost and the keypad will revert to the default parameters.*

2.6 Configuring the KP-250 PG2 Parameters

Enter the "**Kxx.DEV SETTINGS**" main menu on the KP-250 PG2 keypad immediately after enrollment or through the "**MODIFY DEVICES**" menu if performed at a later stage. Choose the number of the keypad device to configure and follow the configuration instructions for the KP-250 P-G2 keypad. Refer to Chapter 7; section A.3 for a description on the buttons to use for navigation and setting.

Option and Default Setting	Configuration Instructions
TAMPERS **disabled**	Define the active tamper.
	Option settings: **disabled**; **all tampers** and **battery cover**.
SUPERVISION **enable**	Define whether or not the control panel will monitor supervision messages sent by the keypad (see Note).
	Option settings: **enable** or **disable.** ***Note:*** *Every 5 minutes the keypad performs a communication test session with the control panel (i.e. "Supervision signal) to check the integrity and quality of the radio link. If the keypad does not report a supervision signal at least once within a predefined time, a "MISSING" trouble alert is initiated. Therefore, if you take the keypad out of the protected premises, switch the Supervision OFF to avoid the trouble alert.*
EXIT-ENTRY BEEPS **off**	Define whether the keypad 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**; **off** and **OFF @ home**.
BACKLIGHT **OFF on timeout**	Define whether the keypad back lighting will remain off, on at all times or will come on when a key is pressed and go off within 10 seconds if no further keystrokes are sensed.
	Option settings: **on**; **off** and **OFF on timeout**.
TROUBLE BEEPS **off**	Under trouble conditions, the keypad sounder emits a series of 3 short reminder beeps once per minute. Define 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**; **off** and **OFF @ night**.
SOUNDER VOLUME **medium**	Define the volume level of the sounder.
	Option settings: **medium**; **maximum** and **minimum**

SCREEN SAVER	Enables or disables the screen saver option. Enables or disables the screen saver option. Options settings: **disable** and **enable**. ***Notes:*** *1) When "**SCREEN SAVER**" is configured as "**enable**", pressing any button on the KP-250 PG2 device will return the device to normal display.* *2) When "**SCREEN SAVER**" in the 03:CONTROL PANEL menu is configured as "**refresh by code**", pressing any button on the KP-250 PG2 device and then entering the user code or presenting the proximity tag to the tag reader will return the device to normal display (see section 3.5.6, "Configuring Audible & Visual User Interface"). "**refresh by code**" / "**text by code**" / "**clock by code**" overrides the "disable" / "enable" setting above and the screen saver will turn on.*
PIEZZO SIREN	Define whether the internal sounder will sound or remain silent upon alarm. Option settings: **off** and **on**.
SQUAWK	Define whether to disable or enable the Squawk. Option settings: **OFF** and **ON**.
BUTTON (*)	Select the function of the (AUX) key * when pressed: **Not used:** No function assigned. **Stop Beeps:** Control panel and other devices in the system will stop beeping during the exit delay. **Skip exit delay:** Stop the exit delay immediately. Option settings: **Not Used** (default); **Stop Beeps**; **Skip exit delay**

3. Programming

3.1 General Guidance

This chapter explains the Installer programming (configuration) options of your KP-250 PG2 device and how to customize its operation to your particular needs end user requirements.

The alarm system 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.

The Soak Test feature allows selected zones to be tested for a pre-defined period of time. When in Soak Test mode, activating a zone does not cause an alarm, and siren and strobe are not activated. The zone activation is recorded in the event log and is not reported to the Monitoring Station. The zone remains in Soak Test until the pre-defined period of time for the Soak Test has elapsed without any alarm activation. The zone then automatically removes itself from Soak Test mode.

Software Upgrade allows you to upgrade the software of the control panel from the remote PowerManage server. During software upgrade, the PowerMaster display will read "**UPGRADING…**" which is displayed throughout the software upgrade procedure.

Note: *Software Upgrade cannot be performed when the control panel is armed AWAY, there is an AC failure, one of the enrolled KPs is not communicating to the panel for some reason, or one of the enrolled KPs is in low battery state.*

3.1.1 Navigation

The keypad's buttons are used for various functions 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.
OK	OK	Use to **select a menu option** or to **confirm a setting or action**.
ESC	Escape	Use to **move one level up** in the menu or to **return to previous setting step**.
	Delete / abort	Use to **edit** a field or **jump back** to the [**<OK> TO EXIT**] screen to quit programming.
0 - 9		Numerical keypad used to enter alphanumerical data.
#	Partition selection	Use to change the status of **partitions** when programming user codes

3.1.2 Feedback Sounds

The sounds you will hear while using and configuring the keypad 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
♫☺	**Success Tune** (- - - ——), indicates successful completion of an operation.
♫☹	**Failure Tune** (———), indicates a wrong move or rejection

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 can be accessed via the **"Installer Mode"** on the KP-250 PG2 keypad which is one of the main system menu options. The display on the keypad is on two rows.

To enter the **"Installer Mode"** and select an Installer Menu Option, complete the following steps:

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

HH:MM READY

↓

INSTALLER MODE OK

If the **"Installer Mode"** is not shown, refer to section 3.2.1

ENTER CODE: ■

	See
01:INSTALL CODES	3.3
02:ZONES/DEVICES	3.4
03:CONTROL PANEL	3.5
04:COMMUNICATION	3.6
05:OUTPUTS	3.7
06:CUSTOM NAMES	3.8
07:DIAGNOSTICS	3.9
08:USER SETTINGS	3.10
09:FACTORY DEFLT	3.11
10:SERIAL NUMBER	3.12
12:PARTITIONING enable	3.13
13:OPERATION MODE	3.14
<OK> to Exit	

ⓘ ***ⓘ - 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.
If you enter an invalid installer code 5 times, the keypad will be automatically disabled for a pre-defined period of time and the message **WRONG PASSWORD** will be displayed.

[3] You have now entered the **"Installer Menu"**. Scroll and select the menu you wish and continue to its corresponding section in the guide (indicated on the right side of each option).

3.2.1 Entering the "Installer Mode" if "User Permit" is enabled

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 accessed 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 **user permission** requirements - see option #91 **"User Permit"** in section 3.5.8.

3.2.2 Selecting options

ⓘ	ⓘ ***– Selecting an option from a menu***
	Example: To Select an Option from the "COMMUNICATION" menu:
[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**" menu, and look for the sub-menu 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 ■.
	To change the configuration, scroll ▶▶ the "Options" menu and select the setting you wish and press OK to confirm. When done, the display reverts to Step 3.

3.2.3 Exiting the Installer Mode

To exit the Installer Mode, complete the following steps:

Step 1	ⓘ	**Step 2**	ⓘ	**Step 3**	ⓘ
	[1]		[2]		[3]
Any screen	ESC or 🗑	**<OK> to Exit**	OK	**HH:MM READY**	

ⓘ	ⓘ ***– Exiting the Installer Mode***
[1]	To exit "**INSTALLER MODE**", move up the menu by pressing the ESC 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.

3.3 Setting Installer Codes

The alarm 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 KP-250 PG2 parameters to the default parameters – see "**09: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 complete the following steps:

Step 1 ⓘ	**Step 2** ⓘ	**Step 3** ⓘ
Select "01:INSTALL CODES" Menu [1]	Select **Master Installer, Installer** code or **Guard** code [2]	Enter NEW **Master Installer, Installer** code or **Guard** code [3]
▶▶	▶▶	▶▶
INSTALLER MODE	**NEW MASTER CODE** 9999 OK	**NEW MASTER CODE** 9999 OK
ENTER CODE: ■	↓ or	↓ or
↓	**NEW INST. CODE** 8888 OK	**NEW INST. CODE** 8888 OK
	↓ or	↓ or
01:INSTALL CODES OK	**NEW GUARD CODE** 0000 OK	**NEW GUARD CODE** 0000 OK
Step 4 ⮌ to step 2		

ⓘ	ⓘ ***– 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.
	Note: *Code "0000" is not valid for Master Installer or Installer.* *Inserting "0000" for the Installer will delete the Installer Code.* ***Warning! Always use different codes for the Master Installer, for the Installer and for the Users****.* *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.*

3.3.1 Identical Installer and Master Installer Codes

In a 2-installer code system, the non-master installer may inadvertently change the 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) 1. Change the Installer Code to a temporary code.
2. Exit the Installer Mode.
3. Enter the Installer Mode again using the Master Installer code (the Master Installer Code will now be accepted).
4. Change the Master Installer code to a different code.
5. 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.

3.4 Zones / Devices

3.4.1 General Guidance & Zones/Devices Menu Options

The ZONES/DEVICES menu enables 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**	⇨	**MENU you wish**

⇨ Indicates 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
ADD TO SOAK TEST	Use to **enable** the Soak Test for device zones.	3.4.6
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.	3.4.7

3.4.2 Adding New Wireless Devices or Wired Sensors

Part A - Enrollment

To enroll and configure a device, follow the instructions in the following chart:

Step 1	ⓘ	**Step 2**	ⓘ
Select "ADD NEW DEVICE" Option	[1]	Enroll the device or Enter the device ID	[2]
▶▶			
ADD NEW DEVICES OK		**ENROLL NOW or ENTR ID:xxx-xxxx** OK Press the enrollment button or enter the device ID or, type 050-0001 for wired sensors. Refer to the detailed instructions below	
Step 3	ⓘ	**Step 4**	ⓘ
Select a Zone number	[3]	Configure zone & device Parameters	[4]
▶▶			
DEVICE ENROLLED ID No. 100-1254 OK ↻ **DEVICE ENROLLED Z02:Contact sens**		Continue to the 2nd diagram in Part B below OK	

ⓘ	ⓘ - ***Adding New Devices***
[1]	Enter "**INSTALLER MODE**", select "**02:ZONES DEVICES**" (see section 3.2) and then select "**ADD NEW DEVICE**". Because of encryption, PowerG devices (including Keyfobs) cannot be used on more than one system at one time. Remember to verify panel and device compatibility.
[2]	See enrollment by button or device ID below. 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**" or "**NO FREE LOCATION**". If the enrolled device is adapted to operate as another device that the panel recognizes, the display then reads "**ADAPTED TO <OK>**".
[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). Both Wireless and wired detectors can be enrolled in any zone number. To change the zone number, click the →▸ button or type in the zone number, and then press ⓘ|OK to confirm.
[4]	Continue to Part B to configure the device – see diagram below

How to check Panel ←→ Device compatibility

Each PowerG device bears a 7-character Customer ID printed on the device sticker in the format: FFF-M:DDD, (for example, 868-0:012) where FFF is the frequency band and M:DDD is the variant code.
For PowerG system devices compatibility, make sure the frequency band (FFF) and the variant code (M) of the devices match. The DDD can be ignored if the panel displays "ANY" for DDD.

Enrollment by using Device ID

The 7-digit Device ID can be used to register a device into the panel locally or from a remote location using the Remote Programmer PC software. The enrollment by device ID is a 2 stage procedure.
In the 1st stage you register the devices' ID numbers into the panel and complete the device configuration. This can be done from a remote location using the Remote Programmer PC software. Following the 1st stage, the PowerMaster panel waits for the device to appear on the network in order to complete the enrollment.
In the 2nd stage, the enrollment is completed when the panel is in full working mode by inserting the battery into the device, or by pressing the tamper or enrollment button on the device. This procedure is very useful for adding devices to existing systems without the need to provide technicians with the Installer Code, or to allow access to the programming menus.
*Remember! The system will indicate a **"NOT NETWORKD"** trouble until the 2nd stage of all registered devices is completed.*

***Note:** The Soak Test on pre-enrolled zones can be activated only when the zone is fully enrolled.*

Enrollment by using the Enrollment button

The panel is set to the Enrollment mode (step #2 above) and the device is enrolled using the Enroll button (refer to the device information in the device Installation Instructions, then open the device and identify the **Enroll button**). For keyfobs and keypads, use the **AUX** '**✱**' button. For gas detectors, **insert the battery**.
Press the enroll button for 2-5 seconds until the LED lights steadily and then release the button. The LED will extinguish or may blink for a few more seconds until the enrollment is completed. If enrollment is successfully completed, the KP-250 PG2 sounds the "Success Tune" and the LCD momentarily shows "**DEVICE ENROLLED**" and then reads the device details.

Enrollment of wired sensors

To enroll a **wired sensor** into the wired zone, enter ID: 050-0001 or 050-0002.

Part B - Configuration

Step 1 ⓘ	**Step 2** ⓘ	**Step 3** ⓘ
Enter Location Menu [1]	Select Location [2]	Enter Zone Type [3]
▶▶ ⇨	▶▶ ⇨	▶▶ ⇨
Z10:LOCATION **Custom 13** OK	**Z10:LOCATION** **Dining room** ■ OK ↓ **Z10:LOCATION** **Custom 5**	**Z10:ZONE TYPE** **5: Interior** OK
Step 4 ⓘ	**Step 5** ⓘ	**Step 6** ⓘ
Select Zone Type [4] *(see list below)*	Enter Chime Menu [5]	Select Chime option [6]
▶▶ ⇨	▶▶ ⇨	▶▶ ⇨
Z10:ZONE TYPE **5:Interior** ■ OK ↓ **Z10:ZONE TYPE** **7.Perim-Follow** ■	**Z10:SET CHIME** **Chime OFF** OK	**Z10:SET CHIME** **Chime OFF** ■ OK ↓ **Z10:SET CHIME** **melody chime** ■

Step 7	ⓘ	Step 8	ⓘ	Step 9	ⓘ
Enter Partitions Menu	[7]	Select Partition options	[8]	Enter Device Settings Menu	[9]
▶▶ ⇨		▶▶ ⇨		▶▶ ⇨	
Z10:PARTITIONS	OK	**Z10:PARTITIONS** **1■ 2■ 3■**	OK	**Z10:DEV SETTINGS**	OK

Step 10	ⓘ	Step 11
Configure Device Parameters	[10]	Continue or End
▶▶ ⇨		
Refer to device datasheet in the device Installation Instructions for specific configuration instructions.		To continue – See ⓘ [11]

ⓘ **- *Configuring New Devices***

Location (name) setting:

[1] To review or change the **Location** (name) setting, press the i|OK button, otherwise scroll to the next option.

Note: *The Location default appears on the second row of the keypad display.*

[2] To change the Location name, enter the menu and select the name from the "**Location List**" below. You can assign additional custom names using the "**06.CUSTOM NAMES**" option in the Installer menu. See section 3.8.

Zone Type setting:

[3] To review or change the **Zone Type** setting, press the i|OK button, otherwise scroll to the next option.

[4] The zone type determines how the system handles signals sent from the device. Press i|OK and select a suitable zone type. The list of available **Zone Types** and the explanation for each zone type is provided below.

Notes:

*1) As a shortcut, press the 2 digit serial No. of the **Zone Type** which takes you directly to its menu.*

2) The Zone Type default appears on the second row of the keypad display.

Chime setting:

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

[6] 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. The chime operates during the Disarm mode only. In "zone name-chime" the control panel sounds the zone name when the sensor is tripped. The chime operates during the Disarm mode only.

Note: *The Chime default appears on the second row of the keypad display.*

Partitions setting:

Note: *The "PARTITIONS" menu appears only if Partitions is enabled in the KP-250 PG2 (see section 3.13).*

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

[8] Use the keypad keys 1, 2, 3 to assign partitions to the device.

Device Configuration:

ⓘ	ⓘ - ***Configuring New Devices***
[9]	To review or change the **Device Configuration (settings)**, press the OK button, otherwise scroll to the next option – see ⓘ [11].
[10]	To configure the device parameters, refer to its corresponding device datasheet in the device Installation Instructions. The defaults of the device parameters can be also configured as explained in section 3.4.7.
[11]	After completing the configuration of the device, the wizard brings you to the **"Next Step"** menu with the following 3 options: "**NEXT Device**" to enroll the next device. "**MODIFY Same Dev.**" reverts to Step 1 (i.e. "**LOCATION**") to allow you to perform additional changes to the device, if needed. "**EXIT Enrollment**" exits the enrollment procedure and returns to Step 1 bringing you back to the "**ADD NEW DEVICES**" menu.

Location List

No.	Location Name	No.	Location Name	No.	Location Name
01	Admin Office	09	Marketing Office	17	Sales Office
02	Delivery door	10	Mezzanine Floor	18	Server Room
03	Engineering	11	Post Room	19	Store Room
04	Finance	12	Rear Doors	20	Warehouse
05	Fire Exit	13	Rr Fire Exit Dr	21	Warehouse doors
06	Front Doors	14	Rear Lobby		
07	Front Shop	15	Rear Shop		
08	Landing Area	16	Reception		

All location names be customized by "06:CUSTOM NAMES" menu (see section 3.8)

Zone Type List

Zone No. and Type	Description
Zxx: ZONE TYPE **1. Exit/Entry 1**	This Zone starts the exit time when the user arms the system or the entry time when the system is armed. To configure the Exit/Entry 1 time, see section 3.14 - Operation mode menu: **13: OPERATION MOD -> 02:BS8243 SETUP or 03:DD243 SETUP or 05:EN50131 SETUP -> 08:ENTRY DELAY 1**
Zxx: ZONE TYPE **2. Exit/Entry 2**	Same as Exit / Entry 1 but with a different delay time. Used sometimes for entrances closer to the panel. To configure the Exit and Entry 2 delays, see section 3.14 - Operation mode menu: **13.OPERATION MOD -> 02:BS8243 SETUP or 03:DD243 SETUP or 05:EN50131 SETUP -> 09:ENTRY DELAY 2**
Zxx: ZONE TYPE **3. Home E/E)** **(Home/Delay)**	The Home Exit and Entry zone is used for Door/Window Contacts and Motion sensors protecting entrance doors to interior living areas where you wish to move freely 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.
Zxx: ZONE TYPE **4. Inter-Access** **(Inter-follow)**	Similar to "Interior" zone but temporarily ignored by the alarm system during entry/exit delay periods. Usually used for sensors protecting the route between the entrance door and the panel.
Zxx: ZONE TYPE **5. Interior**	This zone type generates an alarm only when the system is armed AWAY but not when the system is armed HOME. Used for sensors installed in interior areas of the premises that needs to be protected when people are not present inside the premises.
Zxx: ZONE TYPE **6 .Perimeter**	This zone type generates an alarm when the system is armed both in AWAY and HOME modes. Used for all sensors protecting the perimeter of the premises.

Zone No. and Type	Description
Zxx: ZONE TYPE **7. Perim-Access (Perim-follow)**	Similar to "Perimeter" zone, but is temporarily ignored by the alarm system during entry/exit delay periods. Usually used for sensors protecting the route between the entrance door and the control panel.
Zxx: ZONE TYPE **8. 24h silent**	This zone type is active 24 hours, even when system is DISARMED. It is used to report alarm events from sensors or manually activated buttons to the monitoring station or private telephones (as programmed) without activating the sirens.
Zxx: ZONE TYPE **9. 24h audible**	Similar to 24hr silent zone, but also provides an audible siren alarm.
Zxx: ZONE TYPE **10. Emergency**	This zone type is active 24 hours, even when the system is DISARMED. It is used to report an emergency event and to initiate an **Emergency call** to the monitoring stations or private telephones (as programmed).
Zxx: ZONE TYPE **11. Arming Key**	An Arming key zone is used to control the arming and disarming of the system by an external wired system or simple key switch connected to the panel's wired zone input or a wired input of a PowerG device. ***Note:*** *If the wired input of the panel or PowerG device is closed, the control panel will be armed. If it is opened, the control panel will be disarmed - refer to the PowerMaster-10/30 G2 Installer's Guide, Figure 3.6b (PowerMaster-10 G2) / Figure 4.9b (PowerMaster-30 G2), or, PowerMaster-33 G2 Installer's Guide, Figure 3.8b.*
Zxx: ZONE TYPE **12. Non-Alarm**	This zone does not create an alarm and is often used for non-alarm applications. For example, a detector used only for sounding a chime.
Zxx: ZONE TYPE **13. Fire**	A Fire zone is used for connecting the MC-302E (magnetic contact with hard-wired input) to a wired smoke detector.
Zxx: ZONE TYPE **17. Guard keybox** ***Note:*** Depending on the configuration this option may not be available.	A Guard keybox zone is usually connected to a metal safe containing the physical keys needed to enter the building. Following an alarm, the safe becomes available to a trusted Guard who can open the Guard keybox, obtain the keys and enter the secured premises. The Guard keybox zone acts just like a 24H audible zone. The Guard keybox zone also provides automatic audible internal sounder and external siren alarm that is immediately reported to the Monitoring Station (and does not depend on the Abort Time). ***Note:*** *Opening/closing the Guard keybox causes the PowerMaster to signal the Monitoring Station.*
Zxx: ZONE TYPE **18. Outdoor**	A zone for outdoor areas where an activated alarm does not indicate intrusion into the house. This zone type generates an alarm when the system is armed both in AWAY and HOME modes. Events are sent to private phones and not to the Monitoring Station.
Zxx: ZONE TYPE **19. Int./Delay**	This zone type behaves as an "Interior" zone when the system is armed 'Home' and as a "Delayed" zone when the system is armed 'Away'.
Zxx: ZONE TYPE **20. Tamper**	This is a 24 hour zone operating all of the time even when the system is disarmed. The tamper zone reports tamper alarm events from an external wired device. The behavior is the same as opening the tamper switch of a detector.

Zone No. and Type	Description
Zxx: ZONE TYPE **21. Line Fail**	This is a 24 hour zone operating all of the time even when the system is disarmed. The line fail zone reports phone line failures from an external wired receiver that is connected to a phone line.
Zxx: ZONE TYPE **22. PSU Fail**	This is a 24 hour zone operating all of the time even when the system is disarmed. The PSU fail zone reports power supply failures from an external wired device.
Zxx: ZONE TYPE **23. Panic**	This is a 24 hour zone operating all of the time even when the system is disarmed. The panic zone reports panic events from any panic device to the monitoring station or private telephone numbers. A panic event generates an audible siren alarm.
Zxx: ZONE TYPE **24. Freezer Trbl**	This zone type is active 24 hours, even when the system is disarmed. It is used to report freezer trouble.
(*)	*These Zone types are useful mainly to 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.*

3.4.3 Deleting a Device

Step 1 ⓘ	**Step 2** ⓘ	**Step 3** ⓘ
Select "DELETE DEVICES" Option [1]	Select the respective device Group [2]	Select exact device you wish to delete [3]
▶▶	▶▶	▶▶
02:ZONES/DEVICES	**CONTACT SENSORS**	
↓	↓	
DELETE DEVICES OK	**MOTION SENSORS** OK	**Z01:Motion Sens** **ID No. 120-1254** OK

Step 4 ⓘ	**Step 5**
To delete the device: press the [4] key	
<Del> to Delete	↩ to step 2

ⓘ	ⓘ ***– 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. 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 "**<DEL> 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, complete the following steps:

Step 1	ⓘ	**Step 2**	ⓘ	**Step 3**	ⓘ
Select "MODIFY DEVICES" Option	[1]	Select the respective device Group	[2]	Select exact device you wish to modify	[3]
▶▶		▶▶		▶▶	
02:ZONES/DEVICES		**CONTACT SENSORS**			
↓		↓			
MODIFY DEVICES	OK	**MOTION SENSORS**	OK	**Z10:Motion Camra** **ID No. 140-1737**	OK

Step 4	ⓘ	**Step 5**
Select the Parameter you wish to modify	[4]	Modify the Parameter
▶▶		
Z10:LOCATION		See ⓘ [4]
Z10:ZONE TYPE		When done ↩ to step 2
Z10:SET CHIME		
Z10:PARTITIONS		
Z10:DEV SETTINGS	OK	

ⓘ	ⓘ ***– 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. For example, "**MOTION SENSORS**".
[3]	Scroll the Device Group, identify by zone and/or ID number the exact device you wish to modify or review, for example: "**Z10:Motion Camra** > **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 Part B. 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 complete the following steps:

Step 1	ⓘ	**Step 2**	ⓘ
Select "REPLACE DEVICES" Option	[1]	Select the respective device Group	[2]
▶▶		▶▶	
02:ZONES/DEVICES		**CONTACT SENSORS**	
↓		↓	
REPLACE DEVICES OK		**KEYFOBS** OK	
Step 3	ⓘ	**Step 4**	ⓘ
Select exact device you wish to replace	[3]	Enroll the new device	[4]
▶▶		▶▶	
K03:Keyfob **ID No. 300-0307** OK		**ENROLL NOW or** **ENTR ID:300-xxxx** OK	

ⓘ	ⓘ ***– 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. For example, "**KEYFOBS**".
[3]	Scroll the Device Group, identify (by zone and/or ID number) 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 Part A, Step 2. If you try enrolling a new device of a different type than the replaced device, the alarm system will reject the new device and the display will read "**WRONG DEV.TYPE**". When done, the display shows the device details of the new device.

3.4.6 Configuring Soak Test Mode

This option enables you to enter device zones into Soak Test mode.

To **Enable** the Soak Test, complete the following steps:

Step 1 ⓘ	**Step 2** ⓘ
Select "ADD TO SOAK TEST" Option [1]	Select the respective device Group [2]
▶▶	▶▶
02:ZONES/DEVICES	**CONTACT SENSORS**
↓	↓
ADD TO SOAK TEST OK	**MOTION SENSORS** OK

Step 3 ⓘ	**Step 4**
Select device zone number [3]	Press ⓘ | OK to make selection
▶▶	▶▶
Z09:Motion-Sens **ID No. 120-2468** OK	**Z09:Motion Sens** **disable** OK

Step 5 ⓘ	**Step 6** ⓘ	**Step 7**
Select to enable or disable Soak Test [4]	Confirm selection [5]	
▶▶	▶▶	
Z09:Motion-Sens **disable** ■	**Z09:Motion-Sens** **enable** OK **Z09:Motion-Sens** **enable** ■	↩ to Step 4

ⓘ	ⓘ ***– Enabling Soak Test mode***
[1]	Enter the **Installer Menu**, select the "**02.ZONES/DEVICES**" option (see section 3.2) and then select the **"ADD TO SOAK TEST"** option.
[2]	Select the respective Group of the device you wish to add the Soak Test. For example, "**MOTION SENSORS**".
[3]	Scroll to select the specific device zone number.
[4]	Select between "**disable**" (default) or "**enable**" test.
[5]	If set to "**enable**" you must set the duration of the Soak Test before the Soak Test will start (see Section 3.5.8). You can stop the test for the relevant zone by changing the setting to "**disable**" at any time during the testing period. All Soak test zones will be reset to start a new test upon occurrence of one of the following: 1) Power up of the system; 2) Setup of Factory Default; 3) Change in system Soak Time.

3.4.7 Defining Configuration Defaults for "Device Settings"

KP-250 PG2 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 these default parameters 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 alarm 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, complete the following steps:

Step 1 ⓘ	**Step 2** ⓘ	**Step 3** ⓘ
Select "DEFINE DEFAULTS" Option [1]	Select the respective device Group [2]	Select the Default Parameter [3]
▶▶	▶▶	▶▶
02:ZONES/DEVICES	**CONTACT SENSORS**	**Alarm LED** **on** OK
↓	↓	↓
DEFINE DEFAULTS OK	**MOTION SENSORS** OK	**EVENT COUNTER** **low**
		↓
		DISARM ACTIVITY **Not Active**
		↓

Step 4 ⓘ	**Step 5** ⓘ
Select the new Default Setting [4]	[5]
▶▶	
EVENT COUNTER **low** OK	See ⓘ [5] ↩ to Step 3
↓	
EVENT COUNTER **high** ■	

ⓘ	ⓘ – *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. 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 it to "**high**", scroll the menu until the display shows "**high**" and press the ⓘ|OK button. The new default for the Event Counter parameter setting of Motion Sensors enrolled from now on will be "**high**".
[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 alarm system after the change is performed.

3.4.8 Updating Devices after Exiting Installer Mode

When exiting the "**Installer mode**", the PowerMaster 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 KP-250 PG2 display indicates "**DEV UPDATING 018**" where the number (for example, 018) is a countdown of the remaining number of devices yet to be updated.

3.4.9 KP-250 PG2 Display when PowerMaster Panel or other KP-250 is Active[2]

When a PowerMaster panel is 'ACTIVE', meaning that the PowerMaster panel is currently in the USER SETTINGS / PERIODIC TEST / INSTALLER MODE / LIST OF EVENTS menu by the keypad (for PM-10, 30) or by other devices enrolled to KP-250 panel, the following text appears on the KP-250 PG2 display:

BUSY
CP IS ACTIVE

Or

BUSY
KPX IS ACTIVE

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 alarm system. The "**CONTROL PANEL**" menu provides you with configurable 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 and Exit/Entry Procedures	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

[2] Refers to PowerMaster-10/30 G2 only

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, complete the following steps:

Step 1	
Select "03.Control Panel"	
	
INSTALLER MODE	
↓	
03:CONTROL PANEL	

Step 2

Select the **"Control Panel"** parameter you wish to configure and go to the indicated group section of the selected option. When done ↩ to step 2.

⏩
Arming & Disarming
See section 3.5.2
03:EXIT DELAY
05:QUICK ARM
06:BYPASS ARM
07:LATCHKEY ARM
09:ARMING KEY

Continues →

⏩
Zone Behavior
See section 3.5.3
21:SWINGER STOP
22:CROSS ZONING

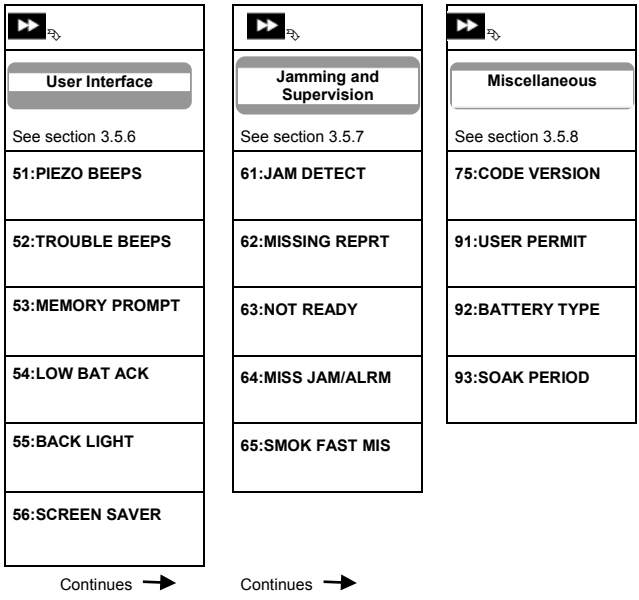
Continues →

⏩
Alarms & Troubles
See section 3.5.4
31:PANIC ALARM
32:DURESS ALARM
33:INACTIVE ALRT
34:TAMPER ALARM
35:AC FAIL RPRT
39:ALARM RESET
40:ABORT FIRE T.

Continues →

⏩
Sirens
See section 3.5.5
43:PANEL SIREN
44:SIREN TIME
45:STROBE TIME
46:SIREN ON LINE

Continues →



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.

03:Option and default	Configuration Instructions
01:ENTRY DELAY1 **30 seconds** **02:ENTRY DELAY2** **15 seconds**	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 KP-250 PG2 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. Options: **00 seconds**; **15 seconds**; **30 seconds**; **45 seconds**; **60 seconds**; **3 minutes** and **4 minutes**. ***Notes:*** *1. In some PowerMaster variants, these menus are displayed in the Operation Mode only.* *2. To comply with **UL** requirements, the entry delay must not exceed 15 sec.* *3. To comply with **CP-01** requirements, "00s" and "15s" delays must not be used.* *4. To comply with **EN** requirements, the entry delay must not exceed 45 sec.*
03:EXIT DELAY **60 seconds**	This option allows programming the time length of the exit delay. An exit delay allows the user to arm the system and leave the protected site via specific routes and

03:Option and default	Configuration Instructions
	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.
	Options: **30 seconds**; **60 seconds**; **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 **normal**	The "Exit Delay" time can be further adjusted according to your preferred exit route. The KP-250 PG2 provides you with the following **"Exit Mode"** options: **A: "normal**" - The exit delay is exactly as defined. **B: "restrt+arm home"** - Exit delay restarts when the door is reopened during exit delay. In the case that no door was opened during exit delay "AWAY", the system will be armed "HOME". **C: "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. **D: "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.
	Options: **normal**; **restrt+arm home**; **restart>reentry** and **end by exit.** ***Note:*** *In some PowerMaster variants, this menu is displayed in the Operation Mode only.*
05:QUICK ARM **off**	Define whether or not the user will be allowed to perform quick arming or not. Once quick arming is permitted, the KP-250 PG2 does not request a user code before it arms the system.
	Options: **off** and **on** (default in USA).
06:BYPASS ARM **no bypass**	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 cannot 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.
	Options: **no bypass**; **force arm** and **manual bypass** (default in USA). ***Notes:*** *1. A zone in Soak Test mode that is configured as bypass will trigger a test fail event if the system detects a potential alarm event.* *2. There is no limit of reported events when a bypass zone is in Soak Test mode.* *3. To comply with **EN** requirements, **"manual bypass"** must be selected.* *4. The option "force arm" is not applicable in the **UK**.*
07:LATCHKEY ARM **off**	When "**on**", a "latchkey" message will be reported by voice[3] or SMS message to users (see Note) upon disarming by a "latchkey user" users 1-8 (PowerMaster-10 G2) / 23-32 (PowerMaster-30 G2 / PowerMaster-33 G2) or keyfob transmitters 1-8 (PowerMaster-10 G2) / 23-32 (PowerMaster-30 G2 / PowerMaster-33 G2). This mode is useful when parents at work want to be informed of a child's return from school.

[3] Refers to PowerMaster-30 G2 with voice option

03:Option and default	Configuration Instructions
	Options: **off** and **on**. ***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 3.6.5 "**REPORTED EVENTS**" option in both "**VOICE REPORT**" & "**SMS REPORT**" menus.*
08:DISARM OPTION **any time**	Certain regulations require that 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 KP-250 PG2 provides you with the following configurable options to disarm the system: **A:** At "**any time**", the system can be disarmed at all times from all devices. **B:** During entry delay, the system can be disarmed only using keyfob or prox operated devices ("**on entry wrless**"). **C:** During entry delay by code, the system can be disarmed only using the KP-250 PG2 keypad ("**entry + away kp.**"). **D:** During entry delay, the system can be disarmed using keyfobs or by code using the KP-250 PG2 keypad ("**on entry all.**"). ***Note:*** *In some PowerMaster variants, this menu is displayed in the Operation Mode only.*
09:ARMING KEY **Arm AWAY**	Determine that, when activated, the Arming Key will arm AWAY or HOME. Options: **arm AWAY** and **arm HOME**.

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 and default	Configuration Instructions
21:SWINGER STOP **after 1 alarm**	Define 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 KP-250 PG2 automatically bypasses the zone to prevent recurrent siren noise and excessive reporting to the Monitoring Station. The zone will be reactivated upon disarming, or 48 hours after having been bypassed (if the system remains armed). Options: **after 1 alarm**; **after 2 alarms** (default in USA); **after 3 alarms** and **no stop**. ***Notes:*** *1. If swinger stop is enabled, a soak fail event will not be triggered.* *2. When a detector is in Soak Test mode and also set to bypass, Swinger Stop will not prevent the sending of events. This may result in excessive reporting of Soak Fail events.*
22:CROSS ZONING **off**	Define whether cross zoning will be active "**on**" or inactive "**off**". 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 (PowerMaster-10 G2 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 (PowerMaster-30 G2 / PowerMaster-33 G2 system). ***Notes:*** *1. If one of the two crossed zones is bypassed (see Section 3.5.2), the remaining zone will function independently.*

Option and default	Configuration Instructions
	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. *3. If a cross zone is in Soak Test mode, then each zone of this zone couple functions independently.* ***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 and default	Configuration Instructions
31:PANIC ALARM audible	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 sound).
	Options: **audible**; **silent** and **disabled**.
	Note: *If the BS8243 or DD243 setup is selected in Operation Mode (see section 3.14), Panic Alarm must be set to "disabled" (applicable in UK panels only).*
32:DURESS ALARM CODE 2580	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).
(not applicable in UK)	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. ***Note:*** *The system does not allow programming a duress code identical to an existing user code.*
33:INACTIVE ALRT disabled 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. Define the **time window** for monitoring the **lack of motion**.
	Options: **disabled**; **after 3/6/12/24/48/72 hours**
34:TAMPER ALARM active	Define whether the Tamper switch protection of all zones and other peripheral devices (except the control panel) are "**active**" or "**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 after 5 minutes	To avoid nuisance reporting in case of short interruptions in the house of AC power, the system reports an AC Fail message only if the AC power does not resume within a pre-determined time delay.
	Options: **after 5 minute, after 30 minute**, **after 60 minute** or **after 3 hours.**

Option and default	Configuration Instructions
	Note: *To comply with* ***EN*** *requirements, the time delay must not exceed 60 min.*
36:CONFIRM ALARM in 60 minutes	Define a specific time period that if 2 successive alarms occur, the second alarm will be considered as a **confirmed alarm**, (see section 3.6.4 option 61). Options: **in 30**/**45**/**60**/**90 minutes** ***Note:*** *In some PowerMaster variants, this menu is displayed in the Operation Mode only.*
37:ABORT TIME in 30 seconds	The KP-250 PG2 can be configured to provide a delay before reporting an alarm to the monitoring station (not applicable to alarms from 24H SILENT and EMERGENCY zones). During this delay period, the siren sounds but the alarm is not reported. If the user disarms the system within the delay time, the alarm is aborted. You can activate the feature and select the "Abort Time" interval. Options: **in 00** (default in USA)/**15**/**30**/**45**/**60 seconds**; **in 2**/**3**/**4 minutes** ***Notes:*** *1. In some PowerMaster variants, this menu is displayed in the Operation Mode only.* *2. To comply with* ***UL*** *or* ***CP-01*** *requirements, the abort time must not exceed 45 sec.*
38:CANCEL ALARM in 5 minutes Previously known as "ALARM CANCEL"	The KP-250 PG2 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. Options: **not active** (default in USA); **in 1**/**5**/**15**/**60 minute(s)** and **in 4 hours**. ***Notes:*** *1. In some PowerMaster variants, this menu is displayed in the Operation Mode only.* *2. Since the Soak Test zone does not report an alarm event to the Monitoring Station, the PowerMaster will not send a “cancel alarm” message to the Monitoring Station even if disarmed within the Cancel Alarm period.* *3. To comply with* ***CP-01*** *requirements, "1 minute" option must not be used.*
39:ALARM RESET by user Previously known as "RESET OPTIONS"	The KP-250 PG2 provides you with the following configurable options for resetting the alarm condition and rearming the system: By the user as usual **by user**. 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, refer to the PowerMaster-10/30 G2 User Guide, Chapter 7 – "Remote Control by Telephone" and use the installer code instead of the user code. ***Note:*** *This feature is not applicable in the USA.*
40:ABORT FIRE T. in 00 seconds	Select the length of time allowed by the system to abort a Fire alarm. The alarm system is programmed to provide an “abort interval” that starts upon detection of a Fire event. During this interval, the buzzer sounds a warning but the siren remains inactive and the alarm is not reported. If the user disarms the system within the allowed abort interval, the alarm is aborted. Options: **in 00**/**30**/**60**/**90 seconds**

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 and default	Configuration Instructions
43:PANEL SIREN **on**	Determine whether the control panel's built-in siren will sound alarms – "**on**" or remain silent – "**off**".
	Options: **on** and **off**.
44:SIREN TIME **4 minutes**	Define the period of time the sirens will sound upon alarm.
Previously known as "BELL TIME"	Options: **1**/**90 seconds**/**3**/**4**/**8**/**10**/**15**/**20 minute(s)**. ***Note:*** *To comply with* ***EN*** *requirements, the "Siren Time" must not exceed 15 minutes.*
45:STROBE TIME **20 minutes**	Define the length of time the strobe light will flash upon alarm.
	Options: **5**/**10**/**20**/**40**/**60 minutes**.
46:SIREN ON LINE **disable on fail**	Determine if the siren will be activated when the phone line fails and the system is armed.
	Options: **disable on fail** 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 and default	Configuration Instructions
51:PIEZO BEEPS **on** When Partitioning is disabled	Define 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". Options: **ON**, **OFF when home** (default in USA) and **off**, and **OFF exit home**. *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 **Def:P1■ P2□ P3□** When Partitioning is enabled	Define 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 pushbuttons [1], [2],and [3] provide selection of the corresponding partitions. Pressing each button repeatedly will toggle between each option. Options: ■ (enable beeps), **H** (OFF when home), **h** (OFF exit home) and □ disable beeps. *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 **off at night**	Under trouble conditions, the control panel sounder emits a series of 3 short reminder beeps once per minute. Define 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. Options: **ON** (default in USA); **OFF at night** and **OFF**.
53:MEMORY PROMPT **on**	Define whether or not the user will receive "Memory" indication that an alarm has been activated. Options: **on** and **off**.
54:LOW-BAT ACK **off**	You can activate or deactivate the "Low Battery Acknowledge" requirement from the user whose keyfob's battery is low. Options: **off** – acknowledge not needed; **on** – acknowledge required.

Option and default	Configuration Instructions
55:BACK LIGHT **OFF after 10sec**	Define 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. Options: **always ON** and **OFF after 10sec**.
56:SCREEN SAVER **off** With Partition disabled	The Screen Saver option (when activated) replaces the status display on the control panel with "PowerMaster-10" / "PowerMaster-30" if no key is pressed during more than 30 seconds. You can activate the Screen Saver and determine whether the status display will resume following any key press (**refresh by Key**) or by entering a code or presenting the proximity tag to the tag reader (**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. Options: **off**; **refresh by code** and **refresh by key**. ***Notes:*** *1. To comply with **EN** requirements, "refresh by code" must be selected.* *2. For Fire and Emergency keys, the first key press will produce the status display and will also perform the Fire/Emergency function.*
56:SCREEN SAVER **off** 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 system status indication on the LCD with idle text if no key is pressed during more than 30 seconds. 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 or presenting a proximity tag to the tag reader (**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. 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 the user code or presenting the proximity tag to the tag reader (**Clock - by Code**) or after pressing any key (**Clock - by Key**). Options: **off**; **Text - by code**; **Text - by Key**; **Clock - by Code**; **Clock - by Key**. ***Note:*** *1. To comply with **EN** requirements, "refresh by code" must be selected.* *2. For Fire and Emergency keys, the first key press will produce the status display and will also perform the Fire/Emergency function.*

3.5.7 Configuring Jamming and Supervision (Missing device)

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

Option and default	Configuration Instructions
61:JAM DETECT **disabled**	Define 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 alarm system 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** / / 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.*
62:MISSING REPRT **after 12 hours** Previously known as "SUPERVISION"	Define 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. Options: **after 1/2/4/8/12 hour(s)**; and **disabled**. ***Note:** To comply with **EN** requirements, 1 hour or 2 hours must be selected.*
63:NOT READY **normal**	Define 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. Options: **normal** and **if missing dev.**
64:MISS/JAM ALRM **normal** Previously known as "BELL/REP.OPT"	"EN standards" require that if a supervision (missing) or jamming trouble occurs during AWAY arming, the siren will sound and the event will be reported as a tamper event. Define whether the system will behave according to **EN standard** or as **normal**. ***Note:** To comply with **EN** requirements "EN standard" must be selected.*
65:SMOK FAST MIS **disable**	Determine that If the smoke detector does not report at least once within a time window of 200 seconds, a "MISSING" alert is initiated. Options: **disable** and **enable**

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 and default	Configuration Instructions
75:CODE VERSION **000**	Define the PowerMaster code version (default "000") which needs to be synchronized with the monitoring station when the anti-code reset function is enabled (see menu 39). This allows the monitoring station personnel to provide the user, by telephone, the proper reset code after the user has stated the Quote code. Enter the code version (3 digits) 000 to 255.
80: 3rd PARTY H.A	This enables the 3rd party home automation interface, that is, enables the option to connect 3rd Options: **disable** (default) or **enable**.
91:USER PERMIT **disable**	User Permission enables you to determine whether access to the INSTALLER MODE requires the user's permission or not. If you select **enable**, 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). Options: **disable** or **enable** (default in UK). ***Note:*** *To comply with **EN** requirements, "Enable" must be selected.*
92:BATTERY TYPE **7.2V NiMH**	Define which type of battery pack is used for the system to supply proper charge current. Options: **7.2V NiMH** or **9.6V NiMH** (default in UK).
93:SOAK PERIOD **disable**	Define the period of time for the Soak Test. Options: **disable** (default), **7 days**, **14 days** or **21 days**. ***Notes:*** 1. *If set to one of the above pre-defined period of times, to be operational Soak Test mode must also be set to "**enable**" test from the "**02:ZONES/DEVICES**" menu (see Section 3.4.6).* 2. *If a change is made to the period of time of the Soak Test while the zone is currently being tested, this will restart the Soak Test.* 3. *The start of the Soak Test period is defined in the factory from 9 AM (09:00).*

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 offers a variety of communication means including telephone PSTN landline, Cellular GSM, GPRS, EMAIL, MMS 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 is connected.	3.6.2
2:GSM/GPRS/SMS	Contains configurable features and parameters related to the Cellular connection of the PowerMaster system.	3.6.3
3:C.S.REPORTING	Contains configurable features and parameters related to Reporting of event messages to 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 email, telephone, MMS 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 the 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
7:BROADBAND	Contains DHCP Client settings, enables to enter LAN parameters and reset broadband module/settings.	3.6.8

To enter the "**04.COMMUNICATION**" menu and to select and configure an option, complete the following steps:

Step 1

Select "COMMUNICATION"

▶▶

INSTALLER MODE

↓

Step 2	Step 3		Step 4
Select Communication Sub-menu	Select the **"Communication"** Parameter you wish to configure		
▶▶	▶▶	▶▶	**See**
1:PSTN TEL LINE OK	**AREA CODE SKIP**	OK	3.6.2
↓	**LINE PREFIX**		

Step 2	Step 3		Step 4
Select Communication Sub-menu	Select the **"Communication"** Parameter you wish to configure		
⏩	⏩	⏩	See
	DIAL METHOD		
2;GSM/GPRS/SMS OK	**GPRS REPORT**	**GPRS PASSWORD** OK	3.6.3
↓	**GSM REPORT**	**REQUEST OPERATOR**	
	SMS REPORT	**OP. BLACK LIST**	
	GPRS APN	**NETWORK TYPE**	
	GPRS USERNAME	**GPRS ALWAYS ON**	
	SIM PIN CODE	**GSM KEEP ALIVE**	
	GPRS PASSWORD	**TRANS. PROTOCOL**	
	NETWORK ROAMING		
3:C.S. REPORTING OK	**01:REPORT EVENTS** ✳	**46:PSTN RETRIES** OK	3.6.4
↓	**02:1st RPRT CHAN**	**47:GSM RETRIES**	
(✳) These options are available only to the "**Master Installer**"	**03:2nd RPRT CHAN**	**48:BB IP RETRIES**	
	04:3rd RPRT CHAN	**51:TEL AUTO TEST**	
	05:DUAL RPRT	**52: AUTO TEST TIME**	
	11:RCVR1 ACCOUNT ✳	**53:COM.FAIL RPRT**	
	12:RCVR2 ACCOUNT ✳	**62:RECENT CLOSE**	
	16:PSTN/GSM RCV1 ✳	**63:ZONE RESTORE**	
	17:PSTN/GSM RCV2 ✳	**64:SYST.INACTIVE**	
	21:IP RCVR1 ✳	**65:TWO WAY VOICE**	
	22:IP RCVR2 ✳	**66:24H ZONE RPRT** ✳	
	26:SMS RCVR1 ✳		

Step 2	Step 3		Step 4
Select Communication Sub-menu	Select the **"Communication"** Parameter you wish to configure		
⏩	⏩	⏩	See
	27:SMS RCVR2 *		
	28:RCVR 1 DNS *		
	29: RCVR 2 DNS		
	41:PSTN FORMAT		
4:PRIVATE REPORT OK	VOICE REPORT	SMS REPORT OK	3.6.5
↓	OK	OK	
	REPORTED EVENTS	REPORTED EVENTS	
	Private tel#1	SMS tel#1	See also Chapter 6, section B.12, in the KP-250 PG2 User's Guide
	Private tel#2	SMS tel#2	
	Private tel#3	SMS tel#3	
	Private tel#4	SMS tel#4	
	REDIAL ATTEMPTS	SMS PERMISSION	
	VOICE←->PRIVATE		
	TEL.ACKNOWLEDGE		
5:MOTION CAMERA OK	IMAGE FORWARD	VIEW ON DEMAND OK	3.6.6
	OK	VIEW TIME WINDOW	
	e-mail#1	VIEW OTHER ALARM	
	e-mail#2		
	e-mail#3		
	e-mail#4		
	MMS tel#1		
	MMS tel#2		

Step 2		Step 3		Step 4
Select Communication Sub-menu		Select the **"Communication"** Parameter you wish to configure		
▶▶		▶▶	▶▶	See
		MMS tel#3		
		MMS tel#4		
6:UP/DOWNLOAD	OK	**PSTN UP/DOWNLOAD** OK	**GPRS UP/DOWNLOAD**	3.6.7
		OK	OK	
		Remote Access	**Panel SIM tel.#**	
		Mast. UL/DL codes	**1st caller ID#**	
		Inst. UL/DL codes	**2nd caller ID#**	
		UL/DL modes		
7:BROADBAND	OK	**DHCP CLIENT**		3.6.8
		MANUAL IP		
		RESET MODULE		
		MANUAL IP **RESET MODULE** **PLINK ON AC FAIL**		

3.6.2 Configuring PSTN (landline phone) Connection

The PowerMaster panel includes a telephone dialer for reporting to Monitoring Stations using several optional 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 is connected.

04:COMMUNICATION OK ▶▶ ... ▶▶ **1:PSTN TEL LINE** OK ▶▶ ... ▶▶ **MENU you wish** OK

Enter "**1:PSTN TEL LINE**", select the menu you wish to configure (see guidance above and in section 3.6.1), and then refer to the table below.

Option and default	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 alarm system will skip the area code from the dialed number.
LINE PREFIX	Enter the prefix digit (if necessary) for the system to access an outside telephone line.
DIAL METHOD **tone (dtmf)**	Define the dialing method used by the PSTN dialer of the PowerMaster control panel. Options: **pulse** and **tone (dtmf)**.

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 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.

04:COMMUNICATION OK ▶▶ ... ▶▶ **2:GSM/GPRS/SMS** OK ▶▶ ... ▶▶ **MENU you wish** OK

Enter "**2:GSM/GPRS/SMS**", select the menu 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 and default	Configuration Instructions
GPRS REPORT **disable**	Define 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. Options: **disable**; **enable.**
GSM REPORT **disable**	Define 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. Options: **disable**; **enable.**

SMS REPORT **disable**	Define 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.
	Options: **disable**; **enable.**
GPRS APN	Enter the name of the **APN Access Point** used for the internet settings for the **GPRS** (up to 16 digits string).
	Note: *To enter the APN Access Point, use the "String Editor" in section 3.8.1.*
GPRS USERNAME	Enter the **Username** of the **APN** used for **GPRS** communications (up to 16 digits string).
	Note: *To enter the Username, use the "String Editor" in section 3.8.1.*
SIM PIN CODE	Enter the **PIN code** of the **SIM card** installed in the **GSM** module (up to 8 numerical digits).
	Note: *To enter the numerical PIN code, use the numerical keyboard.*
GPRS PASSWORD	Enter the **Password** of the **APN** used for **GPRS** communications (up to 16 digits string).
	Note: *To enter the Password, use the "String Editor" in section 3.8.1.*
NETWORK ROAMING **Modem roam en** Previously known as "FORCE HOME NTWK"	The GSM roaming algorithm support cases where the panel is connected to the network but the GPRS connection has timed-out. In such cases the panel attempts to connect to a different network. Select one of the following options: **Modem roam en** The internal cellular modems algorithm for roaming is enabled (roaming (en) = enable). **Roam disable en** Roaming is not allowed. Only the 'Home' network is enabled (accepted (en) = enable). **Manual roam en** The panels algorithm selects the best cellular operator (operator (en) = enable). **Lock network**: The operator that is defined in 'Requested Operator' option in the panel is selected ((en) = enable).
REQUEST OPERATOR Previously known as "SESSION TIMEOUT"	This option specifies a preferred network for example, Vodafone UK. The device attempts to register with this network when the signal strength is above the minimum CSQ value. When a requested network is specified the device attempts to return to this network on every other attempt. **Note**: Contains an editable line to enter up to 6 MCC (Mobile Country Code) numbers +MNC (Mobile Network Code) numbers.
GPRS ALWAYS ON **disable** Previously known as "SESSION TIMEOUT"	Define whether the control panel will stay continuously connected "**enable**", via GPRS communication, or disconnect "**disable**", after each report session.
	Options: **Enable** or **Disable**.

GSM KEEP ALIVE every 28 days	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.
TRANS PROTOCOL TCP	Select the type of protocol used by the control panel to transfer data over the internet. Options: **TCP** or **UDP.** ***Note:*** *A change of option should be performed in coordination with tech support.*

3.6.4 Configuring Events Reporting to Monitoring Stations

The PowerMaster control panel is designed to report alarm, alerts, troubles and other events and messages to two 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".

04:COMMUNICATION OK ▶▶ ... ▶▶ **3:C.S.REPORTING** OK ▶▶ ... ▶▶ **MENU you wish** OK

Enter "**3:C.S.REPORTING**", select the menu 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 and default	Configuration Instructions
01:RPRT EVENTS all-o/c✱ backup	Define which events (i.e. **Alarms (alrm)**; **Open/close (o/c)**; **Alerts (alrt)**; **All events (all)**; **Maintenance** and **Troubles**) will be reported to the Monitoring Stations. 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. Options: **all-o/c✱ backup** **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 highest priority and Alert events (**alrt**) have lowest priority.*
02:1st RPRT CHAN disabled **03:2nd RPRT CHAN disabled** **04:3rd RPRT CHAN disabled**	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 for 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. To define also backup reporting channels, enter the "2nd RPRT CHAN" and "3rd RPRT CHAN" options and define them as well.

Option and default	Configuration Instructions
	Options: **disabled**; **cellular, broadband** 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, the order of priority will be GPRS (IP) channel first, then GSM voice channel and lastly SMS channel, provided that these channels have been enabled (see section 3.6.3).*
05:DUAL RPRT **disable**	Define whether or not to report events using PSTN and broadband, PSTN and cellular or broadband and cellular communication channels. Options: **disable**; **PSTN&broadband**; **PSTN&cellular** and **broadband&cell**.
11:RCVR1 ACCOUNT **001234** **12:RCVR2 ACCOUNT** **005678** Master Installer only	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. To enter Hexadecimal digits, use the following table:

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

16:PSTN/GSM RCV1 **17:PSTN/GSM RCV2** Master Installer only	The PowerMaster 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). Enter the two respective telephone numbers (**including area code** – maximum 16 digits) 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).

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 a dial tone, whichever comes first and then dials. Applicable only at the 1st digit.
D	[#]→[3]	The dialer waits 5 seconds for a 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.

Option and default	Configuration Instructions
	To **move the cursor** and **clear digits**, use the **"String Editor's"** keys as described in the table in section 3.8.1.
21:IP RCVR 1 **000.000.000.000** **22:IP RCVR 2** **000.000.000.000** Master Installer only	If equipped with GSM or Broadband/PowerLink modules, the PowerMaster can be programmed to report the event messages defined in Report Events option (option 01) to two IP Receivers, Visonic PowerManage model. 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. Enter the two IP addresses (000.000.000.000) 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). ***Note:*** *You must enter the IP address of the receiver, even if you enter the Domain Name System (DNS) server name where the receiver is installed. See option* ***28: RCVR 1 DNS*** *and* ***29: RCVR 2 DNS*** *for details on how to enter the DNS name.*
26:SMS RCVR **27:SMS RCVR2** Master Installer only	If equipped with GSM module, the PowerMaster 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. Enter the two telephone numbers (including area code – maximum 16 digits).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). ***Note:*** *To enter the international prefix (+) at the 1st digit – key-in [#]→[1].*
28:RCVR 1 DNS **29:RCVR 2 DNS** Master Installer only	Defines the domain names of RCVR1 and RCVR2. Enter a Domain name of up to 32 characters.
41:PSTN FORMAT **SIA** Master Installer only	The PowerMaster 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, 4/2 1900/1400; 4/2 1800/2300, Contact-ID and Scancom). 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.** 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. Options: **SIA**; **4/2 1900/1400**; **4/2 1800/2300**; **Scancom**; **SIA text** and **Contact ID**.

Option and default	Configuration Instructions
46:PSTN RETRIES **4 attempts**	Define 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. Options: **2 attempts**; **4 attempts**; **8 attempts**; **12 attempts** and **16 attempts**.
47:GSM RETRIES **4 attempts**	Define 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. Options: **2 attempts**; **4 attempts**; **8 attempts**; **12 attempts** and **16 attempts**.
48:BB IP RETRIES **4 attempts**	Define the number of times the system will retry to report to the Monitoring Station in case of failure to report via the Broadband Module connection. Options: **2 attempts**; **4 attempts**; **8 attempts**; **12 attempts** and **16 attempts**.
51:TEL AUTO TEST **Test OFF**	To verify a proper communication channel, the PowerMaster can be configured to send a test event to the Monitoring Station via PSTN periodically. You can set the interval between the consecutive test events or disable the automatic sending of this event entirely. If the interval is set for every one day or more then the exact hour of reporting can be selected with option 52. Options: **test OFF**; **every 1/2/5/7/14/30 day(s)**; and **every 5 hours**.
52:AUTO TST TIME **12:00**	Enter the exact time (**auto test time**) during the day at which the Auto Test message (if enabled in option 51) will be sent to the Monitoring Station. ***Note:*** *If the AM/PM format is used, you can set the "AM" and the "PM" digits using the numbers on the keypad.*
53:COM.FAIL RPRT **OK** **PSTN FAIL** **immediate rprt** **GSM GPRS FAIL** **do not report** **BROADBAND FAIL** **ESC** (Return) Previously known as "LINE FAIL REPORT"	Determine whether a failure in any of the system communication channels i.e. PSTN, GSM/GPRS, or Broadband 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", "GSM line fail" or "broadband fail") will be respectively stored in the event log. Options "**PSTN FAIL**": **immediate rprt**; **after 5/30/60/180 min** and **rprt disabled**. Options "**GSM GPRS FAIL**": **after 2/5/15/30 min** and **do not report**. Options "**BROADBAND FAIL**" **after 1/2/5/15/30 min, 1/3/6 hours** and **do not report** (default).
61:RPRT CNF ALRM **rprt disabled**	Define whether the system will report whenever 2 or more events (confirmed alarm) occur during a specific period or enable the report and bypass the detector.

Option and default	Configuration Instructions
	Options: **rprt disabled**, **rprt ena+bypass** and **rprt enabled** ***Note:*** *In some PowerMaster variants, this menu is displayed in the Operation Mode only.*
62:RECENT CLOSE **rprt disabled**	False alarms may occur if users do not exit the premises within the exit delay period, resulting in a false alarm a short time later. In such cases, inform the Monitoring Station that the alarm occurred shortly after the system was armed (this event is known as "Recent Close"). The report enabled option sends a "recent closing" report to the Monitoring Station if an alarm occurs within 2 minutes from the end of the exit delay. Options: **rprt disabled** and **rprt enabled**
63:ZONE RESTORE **rprt disabled**	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. Options: **rprt enabled** and **rprt disabled**
64:SYST.INACTIVE **rprt disabled**	The PowerMaster can 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. Options: **rprt disabled**; **after 7/14/30/90 days**.
65:TWO WAY VOICE **OK** **Send 2wv code** **disable** **voice<- ->cs** **disable** **ringback time** **1 minute** **ambient level** **low** **ESC** (Return) Master Installer only for: **Send 2wv code /** **voice <–––>cs /**	You can configure the two way voice channel settings of the control panel[4], as follows: **Send 2 WV Code:** Define 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.:** 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:** Define the period during which the Monitoring Station can establish 2-way voice communication with the control panel (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:** 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.

[4] Refers to PowerMaster-30 G2 with voice option.

Option and default	Configuration Instructions
ringback time	
Send 2wv code **disable**	Options: **disable** and **enable**.
voice<- ->cs **disable**	Options: **disable**; **timeout 10/45/60/90s**; **timeout 2m**; 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 control panel (after an event occurrence) in the normal manner (and not after one ring).*
Ringback time **1 minute**	Options: **1**/**3**/**5**/**10 minute(s)**.
ambient level **low**	Options: **low** and **high**.
66:24h ZONE RPRT **both burglary** Applicable in UK only	Define whether 24 hour (silent and audible) zones will function as normal 24 hour zones or as panic zones. Options: **audible as panic**; **silent as panic**; **both as panic**; and **both burglary**.

Event Reporting Chart

To simplify the configuration of reporting system events to 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).

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, e.g. Missing, Jamming, Communication Fail etc.
***Note: "Alarms"** group has the highest priority and **"Alerts"** group has the lowest priority.*		

The PowerMaster allows you also to select which event groups will be reported to each of the two 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 **Monitoring Station 1** (C.S.1) and event messages reported to **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(-alert) ✳ alert	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 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 of redial attempts, two-way voice communication[5] 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.
- The SMS Permission option defines which SMS commands are accepted by the panel. For a detailed description of the menu options see the KP-250 PG2 User's Guide, Chapter 6 System Configuration, SMS REPORT.

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

04:COMMUNICATION OK ▶▶ ... ▶▶ **4:PRIVATE REPORT** OK ▶▶ ... ▶▶ **MENU you wish** OK

- The "**4:PRIVATE REPORT**" menus and sub-menus configuration is shown in the table in section 3.6.1. For a detailed description of the menus options, refer to the KP-250 PG2 User's Guide, Chapter 6, section B.12.

3.6.6 Configuring Motion Cameras for Visual Alarm Verification

If equipped with a GSM/GPRS module, the PowerMaster can communicate to Monitoring Stations (equipped with Visonic PowerManage server) via the GPRS network, also with image clips captured by Motion Cameras (models Next CAM PG2, Next-K9 CAM PG2 and TOWER 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 image clips "On Demand" and to forward them as defined in the PowerManage application. To protect customers' privacy, the KP-250 PG2 can be customized to enable the "On Demand View" only during specific system modes (i.e. Disarm, Home and 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".

04:COMMUNICATION OK ▶▶ ... ▶▶ **5:MOTION CAMERAS** OK ▶▶ ... ▶▶ **MENU you wish** OK

Enter "**5:MOTION CAMERAS**", select the menu you wish to configure (see guidance above and in section 3.6.1), and then refer to the table below which provides you with detailed configuration instructions.

Option and default	Configuration Instructions
VIEW ON DEMAND **disabled**	By enabling the "On Demand View", you can 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. Options: **disable**; **in all modes**; **in AWAY only**; **in HOME only**; **in HOME & AWAY; DISARM & AWAY**; **DISARM & HOME**; and **in DISARM only**.

[5] Refers to Powermaster-30 G2 with voice option.

Option and default	Configuration Instructions
VIEW TIME WINDOW **always** "VIEW TIME WINDOW" menu appears only if an option other than "disable" is selected in "VIEW ON DEMAND"	If the "On Demand View" is enabled in the previous option, you can further determine 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. Options: **always**; **alarm + 5 min**; **alarm + 15 min**; **alarm + 1 hour**
VIEW OTHER ALARM **enable**	Define whether the system will capture and forward image clips also upon occurrence of Non-Burglary alarms (i.e. Fire, Duress, Emergency and panic). Options: **enable; disable.**
UPLOAD FILM **enable**	Define whether to enable / disable the sending of images to the PowerManage server. Options: **Enable**; **Disable.**
KIDS COME HOME **disable**	Define that upon PIR-camera detection, the system will send up to 4 images to a 3rd party server if the system is disarmed via keypad or proximity tag by latchkey users 5 to 8, and only when the system is in Entry Delay or the Abort Time is enabled. Options: **Enable**; **Disable** ***Note:*** *At least one PIR camera must be defined as one of the following zone types: Perim-Follow / Inter-Follow / Exit/Entry 1 / Exit/Entry 2.*

3.6.7 Configuring Upload / Download Remote Programming Access Permission

Using a PC, the KP-250 PG2 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 directly 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 calls from a cellular modem to the Panel's SIM card number. The panel checks the caller ID 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 5.6.4 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 OK ▶▶ ··· ▶▶ **6:UP/DOWNLOAD** OK ▶▶ ··· ▶▶ **MENU you wish** OK

Enter "**6:UP/DOWNLOAD**", select the menu to configure (see guidance above and in section 3.6.1), and then refer to the table below for configuration instructions.

Option and default	Configuration Instructions
PSTN UP/DOWNLOAD OK	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 ℹ|OK to enter the "**PSTN UP/DOWNLOAD**" sub menu and then select and configure each of the sub-menu options as shown below. When done, press ESC to

Option and default	Configuration Instructions
	return.
Remote access enable	Enable or disable the **remote access** to the system. If disabled, the system cannot be **accessed** remotely thereby inhibiting the Upload/Download and the Remote Control via PSTN or GSM analog communication channels (refer to the KP-250 PG2 User's Guide, Chapter 7).
	Options: **enable**; **disable.**
Mast. UL/DL code	Enter the 4-digit **password** (Master Installer download code) code that will allow the **Master Installer** to access the system remotely and upload/download data to the PowerMaster panel.
	Note: *"0000" is not a valid code and must not be used.*
Inst. UL/DL code	Enter the 4-digit **password** (Installer download code) code that will allow the **Installer** to access the system from remote and upload or download data into the PowerMaster panel.
	Notes: *"0000" is not a valid code and must not be used.* *The installer can configure via UL/DL only the options he is authorized to configure from the control panel.*
UL/DL modes in DISARM only	Define whether the downloading/uploading can be performed in Disarm mode (state) only or in all modes (i.e. Away, Home & Disarm).
ESC (Return)	Options: **in all modes** or **in DISARM only**.
GPRS/UP DOWNLOAD OK	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 sub-menu options as shown below. When done, press ESC to return.
Panel SIM Tel# (Previously known as "**My SIM Tel.#**")	Enter the PowerMaster **SIM card** telephone number. The PowerManage server at the Monitoring Station sends an SMS message to this number for 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#	Enter the **"Caller ID"** (i.e. telephone number) from which **Monitoring Station #1** (C.S.1) / **Monitoring Station #2** (C.S.2) calls the control panel for initiating the Up/Download process. If the sender's Caller ID matches with the "1st caller ID#" / "2nd caller ID#", the

Option and default	Configuration Instructions
2nd caller ID#	PowerMaster will call back the PowerManage server using **"IP RCVR 1"** / **"IP RCVR 2"** address as configured in Section 5.6.4, options 21 and 22.
	Note: *Caller ID#1/ID#2 must contain at least 6 digits otherwise the process will not work.*

ESC (Return)

3.6.8 Broadband

Note: *If the Broadband Module is not registered to the PowerMaster, the menu "**7:BROADBAND**" will not be displayed on the KP-250 PG2.*

In this section you can configure how to obtain an IP address, enter LAN parameters and reset broadband module settings.

04:COMMUNICATION OK ▶▶ ... ▶▶ **7:BROADBAND** OK ▶▶ ... ▶▶ **MENU you wish** OK

Enter "**7:BROADBAND**", select the menu to configure (see guidance above and in section 3.6.1), and then refer to the table below for configuration instructions.

Option	Configuration Instructions
DHCP CLIENT **DHCP ENABLE**	Define whether to obtain an IP address automatically using a DHCP server or to enter an IP address manually. Options: **DHCP DISABLE** and **DHCP ENABLE.**
MANUAL IP	Manually enter LAN parameters.
OK	
IP ADDRESS **192.168.000.200**	Enter the IP address of the Broadband Module
SUBNET MASK **255.255.255.200**	Enter the subnet mask used with the IP address.
DEFAULT GATEWAY **192.168.000.001**	Enter the default gateway of the Broadband Module. ***Note:*** *If DHCP CLIENT is set to DHCP ENABLE, the entries for IP ADDRESS, SUBNET MASK and DEFAULT GATEWAY will be ignored.*
PLINK curr. params	Displays the current IP addresses of the PowerLink.
RESET MODULE	Determine whether to reset the broadband module or to reset all broadband settings – does not reset Monitoring Station IP settings. (FACTORY DEFIN.).
OK	
REBOOT **Press 'OK'**	Resets the broadband module
FACTORY DEFAULT **Press 'OK'**	Resets all broadband settings
PLINK ON AC FAIL	Define the availability of the PowerLink communicator during AC failure. Options: **shutdown** (PowerLink is turned off during AC failure; default), **active 10 min**

Option	Configuration Instructions
	(PowerLink is turned off if AC failure duration is longer than 10 minutes), or **active** (PowerLink will always be active). ***Note:*** *Keeping the PowerLink communicator active during AC failure reduces battery backup time significantly.*

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 sounder or STROBE light that will be activated according to how the system is programmed.

3.7.2 Open Collector States

The PowerMaster 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 Output Configuration

05:OUTPUS [OK] [▶▶] ... **Enable Expander** [OK]

Enable or disable the PowerMaster-33 EXP internal wired expander module. When enabled the number of inputs and outputs is increased to 8. This option is enabled by default.

Step 1	**Step 2**	**Step 3**
Select "05:OUTPUTS" menu	Select "Enable Expander " menu	KP-250 PG2 displays currently selected setting Press [i | OK]
[▶▶]	[▶▶]	[▶▶]
05:OUTPUTS [OK]	**Enable Expander** [OK]	**OPTIONS** [OK] **disable** ■
Step 4	**Step 5**	
Select whether to "enable" or "disable" the expander	Press [ESC] to return to "Enable Expander " or [🗑] and select <OK> to Exit.	
[▶▶]	[▶▶]	
OPTIONS [OK] **enable** ■	**OPTIONS** [OK] **enable**	

3.7.4 Wired I/O Configuration

05:OUTPUS [OK] [▶▶] ... **Set EXP I/O PINS** [OK]

Configure the EXP-33 expanders I/O types to either Zone or PGM. Pin #1 to #6 by default are configured to Zone, pin #7 to #8 are configured to PGM.

Select the pin # and depending on the physical setup select either Zone or PGM.

Step 1 Select "05:OUTPUTS" menu	**Step 2** Select "Set EXP I/O PINS " menu	**Step 3** KP-250 PG2 displays currently PIN#1 Press OK
▶▶	▶▶	▶▶
05:OUTPUTS OK	**Set EXP I/O PINS** OK	**OPTIONS** **Zone** ☐ OK
Step 4 Select either "Zone" or "PGM" to configure the I/O type	**Step 5** Press ESC to return to "Set EXP I/O PINS " or 🗑 to take you to "<OK> to Exit"	
▶▶	▶▶	
OPTIONS **PGM** ■ OK	**OPTIONS** **PGM** OK	

3.7.5 PGM Connection

05:OUTPUS OK ▶▶ **PGM OUTPUTS** OK **P01: PGM on Board** OK **PGM on Expander** OK

Program the PGM outputs, select the PIN# and choose the required option.

Step 1	**Step 2**	**Step 3**
Select "05:OUTPUTS" menu	Select "PGM Outputs" menu	Select PGM on Expander Press ⓘ|OK
▶▶	▶▶	
05:OUTPUTS OK	**PGM Outputs** OK	**PGM-on Expander** OK
Step 4	**Step 5**	**Step 6**
KP-250 PG2 displays currently PIN# 1	Select "silent" or "audible" options	Press ESC to return to "PGM Outputs" or 🗑 to take you to "<OK> to Exit"
▶▶	▶▶	
PGM OPTIONS OK **Silent** ■	**PGM OPTIONS** OK **Audible**	**PGM-5 OPTIONS** **Audible** ■

3.7.6 Entering Daytime Limits

05:OUTPUS OK ▶▶ ··· **LOCKOUT TIME** OK

Enter the "**LOCKOUT TIME**" menu and enter the daytime limits through which the PGM device will turn off, even when the associated sensors are triggered.

Step 1	**Step 2**	**Step 3**
Select "05:OUTPUTS" menu	Select "LOCKOUT TIME"	Press OK
▶▶	▶▶	
OUTPUTS OK	**LOCKOUT TIME** OK	**start time HH:MM** OK **11:00**
Step 4	**Step 5**	**Step 6**
Enter the time at which you wish the lockout state to begin	Press ▶▶	Press OK
start time HH:MM OK **11:00**	**start time HH:MM** ▶▶ **09:30**	**stop time HH:MM** OK **19:00**
Step 7	**Step 8**	
Enter the time at which you wish the lockout state to end.	Press ESC to return to "LOCKOUT TIME" or 🗑 to take you to "<OK> to Exit"	
stop time HH:MM OK **19:00**	**stop time HH:MM** **16:30**	

3.7.7 PGM on HW Expanders

05:OUTPUS OK ▶▶ **PGM OUTPUTS** OK **PGM on Expander** ▶▶ **PGM on HWExpndrs**

Enroll the PGM to allow configuration of I/O PIN 8-16.

Step 1	**Step 2**	**Step 3**
Select "05:OUTPUTS" menu	Select "PGM Outputs" menu	Select PGM on Expander
▶▶	▶▶	▶▶
05:OUTPUTS OK	**PGM Outputs** OK	**PGM-on Expander** OK
Step 4	**Step 5**	**Step 6**
Select PGM on HWExpndrs	Select "none" or "Expander IOV ID no. 441-XXXX" options	Select "NO EXISTING DEV." or " Pmm: PGM PIN #m" options
▶▶	▶▶	
PGM on HWExpndrs OK	**NO EXISTING DEV.** **or** **E0x:Expander IOV ID NO. 441-XXXX** OK	**NO EXISTING DEV.** **or** **Pmm: PGM PIN #m**

3.8 Custom Names

3.8.1 Custom Zone Names

During the device enrollment process you also define the Location name where the device is installed. The location name is selected from a location list of Custom names - see Section 3.4.2, Part B, for Location List and instructions.

Define the custom location names according to your specific needs and use them during the device enrollment.

To define the Custom Location names, follow the instructions below. Additional guidance is provided in section 3.2.

06:CUSTOM NAMES OK ▶▶ ... ▶▶ **CUST. ZONES NAME** OK

Enter "**CUST.ZONES NAME**" (see guidance above), then refer to the table below which provides you with detailed explanations and programming instructions to edit the desired custom location.

Note:
All 31 location names can be edited.

Configuration Instructions

Enter the Custom Location names you wish to edit.

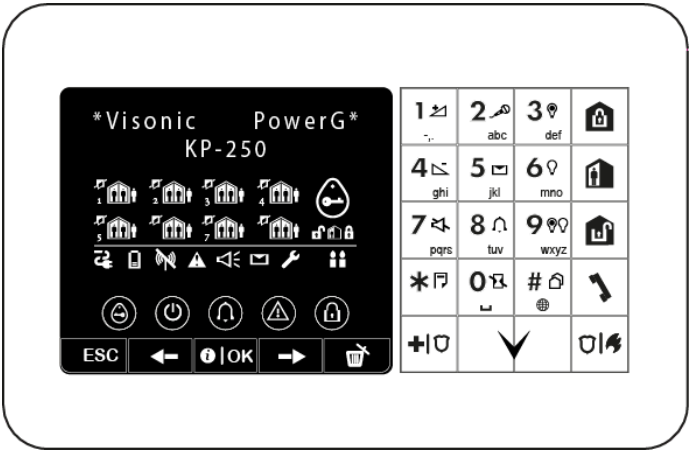
To edit:

Press OK to enter the "**CUST. ZONES NAME**" sub menu and then press OK again to select the Location # you wish to edit, for example "**TEXT LOC. #01**" ↩ **Admin Office**. Press OK ; the display shows the current Custom name, for example "**Admin Office**". To change the name, at the blinking cursor, enter the Location name you wish and at the end, press OK to confirm.

When done, press ESC to return.

Note: *To enter the Location name use the "String Editor" below.*

IMPORTANT! *The editing of a custom zone name automatically deletes the original text and recorded voice name. Make sure to record a new voice name via the RECORD ZONE NAME menu (see next section).*



Note: *The icons and numbers shown on the above keypad drawing are for illustrative purposes only.*

Key	String Editor Functionality
0	' ', '0'
1	'.', ',', '1'
2	'a', 'A', 'b', 'B', 'c', 'C', '2'
3	'd', 'D', 'e', 'E', 'f', 'F', '3'
4	'g', 'G', 'h', 'H', 'i', 'I', '4'
5	'j', 'J', 'k', 'K', 'l', 'L', '5'
6	'm', 'M', 'n', 'N', 'o', 'O', '6'
7	'p', 'P', 'q', 'Q', 'r', 'R', 's', 'S', '7'
8	't', 'T', 'u', 'U', 'v', 'V', '8'
9	'w', 'W', 'x', 'X', 'y', 'Y', 'z', 'Z', '9'

Key	String Editor Functionality
#	Short press: toggles between **Insert** and **overwrite**. Long press: **Changes** between **lowercase** letters (a,b,c…z) and **uppercase** letters (A,B,C…Z).
*	'|', '#', '%', '&', '"', '*', '+', '-', '/', '=', '^', '@', '␣', '"', ":"
→	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.
OK	**Confirms and saves** the edited string and reverts to previous menu.
ESC	**Exiting** the edit screen and moves one level up to previous or top menu without saving the edit string.
🗑	**Clears digits** of the string

3.8.2 Record Speech[6]

You can 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.

06:CUSTOM NAMES OK ▶▶ ... ▶▶ **RECORD HOUSE ID** OK

Enter "**RECORD SPEECH**", select the menu you wish to perform (see guidance above), and then refer to the tables below which provide you with detailed explanations for each option.

Option	Instructions
RECORD HOUSE ID	You can record a message to be announced automatically when events are reported to private telephones. While in "**RECORD SPEECH**", press i|OK; the display now reads "**RECORD HOUSE ID**" ↻ "**REC-<2> PLAY-<5>**" (this means, press the 2 button to record and the 5 button to play recording through the PowerMaster-30 G2 control panel or external voice box). To initiate the recording procedure, press the 2 button continuously to record your message; "**RECORD A MSG**" appears momentarily and then changes to "**TALK NOW**" ↻ ( ) 0%. A progress indicator will be displayed that is incremented each time by 25%, as follows: 0%, 25%, 50%, 75%, 100%. At the end of the recording process, the KP-250 PG2 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 through the PowerMaster-30 G2 control panel or external voice box.*

To advance to the next stage in the recording procedure; from the "**RECORD HOUSE ID**" menu, click → ; the display will change to "**RECORD USER NAME**". Press i\|OK to proceed.

Option	Instructions
USER VOICE 23	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 "**RECORD HOUSE ID**" recording procedure described above. Click → to navigate between user name numbers.

To advance to the next stage in the recording procedure; from the "**RECORD USER NAME**" menu, click → ; the display will change to "**RECORD ZONE NAME**". Press i\|OK to proceed.

[6] Refers to Powermaster-30 G2 with voice option.

Option	Instructions
VOICE LOC.#1 **Dining room**	You can record zone names (for example, Garage door, Guest room, etc.), and assign them to specific zones. When done, press ESC to return. Press OK to select the zone name you wish to record, for example "**VOICE LOC. #01**" and the current recording for zone name, for example, "**Dining room**". Record zone names; the procedure is identical to the "**RECORD HOUSE ID**" recording procedure described above. Click →► to navigate between zone name numbers.

IMPORTANT!

1. *The editing of a custom zone name automatically deletes the original text and recorded voice name. Make sure to record a new voice name.*

2. *Performing reset of factory defaults (see section 3.11) restores the original recordings for the zone names.*

3.8.3 Voice Box Mode[7]

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.

06:CUSTOM NAMES OK ►► ... ►► **VOICE BOX MODE** OK

Enter "**VOICE BOX MODE**", and then refer to the table below which provides you with the options.

Option and default	Instructions
VOICE BOX MODE **VOICE BOX MIXED**	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**"). **Options: NO VOICE BOX; VOICE BOX ONLY** and **VOICE BOX MIXED**

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.*

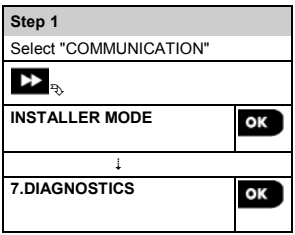
The diagnostic test process is shown below.

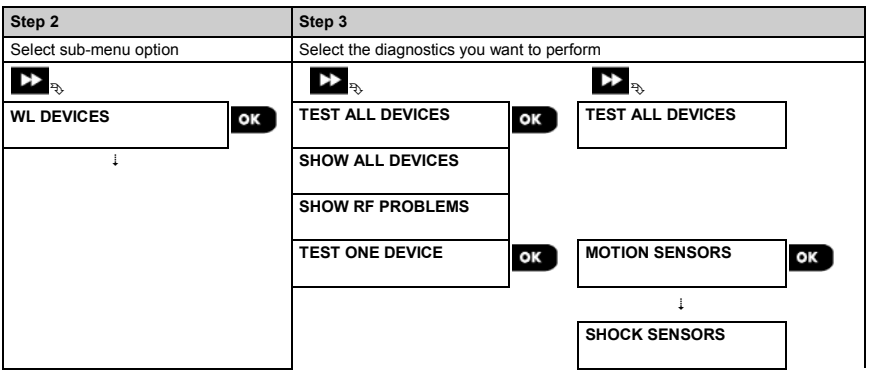
The "**07.DIAGNOSTICS**" menu contains several sub-menu options, each covering a group of configurable features and parameters related to the communication and reporting as follows (see the list in Step 3 of the chart below):

[7] Refers to system that is connected to the Voice Box

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.	3.9.2
GSM/GPRS	Describes how to test the GSM/GPRS/SIM communication module.	3.9.3
SIM NUMBER TEST	Tests the SIM number to ensure correct entry of the SIM number in the control panel.	3.9.4
BROADBAND MODULE	Enables to test the communication of the Broadband Module with the PowerManage server.	3.9.5
EXPANDER TEST (PM-33 only)	View the catalog number and SW version of the enrolled HW IOV devices. This is required in order to confirm successful SW upgrade of the HW IOV devices.	
FIND ME (PM-33 only)	Command any enrolled HW/WL IOV device to sound a tone.	

To enter the "**07.DIAGNOSTICS**" menu and to select and configure an option, complete the following steps:





Step 2	Step 3		
			KEYPADS
GSM/GPRS OK			
SIM NUMBER TEST OK	Tst by IP RCVR 1 OK		SIM# verified
	▶▶ Tst by IP RCVR 2		
BROADBAND MODULE OK	PLEASE WAIT… OK		Unit is OK
EXPANDER TEST (PM-33 only) OK	PLEASE WAIT… OK		OK No Communication Not Connected
FIND ME (PM-33 only)	IOV1 TEST OK		OK No Communication Not Connected
	IOV2 TEST		
	IOVx TEST		

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 OK ▶▶ ... ▶▶ **WL DEVICES** OK ▶▶ ... ▶▶ **MENU you wish** OK

Enter the "**WL DEVICES**" menu, select the type of test you wish to perform (see guidance above and in section 3.9.1), and then refer to the table below which provides you with detailed explanations for each option.

Option	Instructions
TEST ALL DEVICES	You can test all devices automatically, one after the other.

Option	Instructions
	While in "**TEST ALL DEVICES**", press OK to initiate the test. The devices are tested in the following order: wall-mounted devices, vanishing magnetic contact devices, keyfobs and panic buttons. At the end of the test process, the KP-250 PG2 will present the following: "**SHOW ALL DEVICES**". Press OK to view devices' status. ***Note:*** *Refer to the "**SHOW ALL DEVICES**" section below 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 vanishing test process, indicated by the corresponding display, for example, "**TEST VANISH XX**", momentarily open the door or window. While in the handheld devices test process, indicated by the corresponding display, for example, "**TEST KEYFOBS XX**", press any key of the selected device to initiate the test. While in the panic button test process, indicated by the corresponding display, for example, "**TEST PANIC BT: XX**", press a button on the pendant.
TEST ONE DEVICE OK **CONTACT SENSORS** **MOTION SENSORS** **GLASSBREAK SENS.**	You can select a specific device group you wish to test, for example, Motion Sensors. 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 screen will appear: "**Xxx:<device name>**" "**<location>**" Where Xxx indicates the device 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.

Option	Instructions
	At the end of the test process, the KP-250 PG2 will present the devices' status: "**Zxx: 24hr: <status>**"[8] "**Zxx: NOW: <status>**"[1]. ***Note:*** *Refer to "**SHOW ALL DEVICES**" section for further information on device status.*
SHOW ALL DEVICES	You can view the devices status. ***Note:*** *This option is available only after testing process was done.* Press i|OK to view the devices' status. The following screen will appear: "**Zxx: 24hr: <status>**"[1] "**Zxx: NOW: <status>**"[1] Use → to scroll between the device's families.
SHOW RF PROBLEMS	You can view only the devices which have RF problems. ***Note:*** *This option is available only after testing process was done.* Press i|OK to view the devices' status. The following screen will appear: "**Zxx: 24hr: <status>**"[1] "**Zxx: NOW: <status>**"[1] Use → to scroll between the device's families.
<OK> to exit	Select to terminate the diagnostics test.

3.9.3 Testing the GSM module

The KP-250 PG2 enables to test the GSM module integrated inside the panel.

07:DIAGNOSTICS OK ▶▶ ... ▶▶ **GSM/GPRS** OK **PLEASE WAIT..**

Enter the "**GSM/GPRS**" menu, and press i|OK to initiate the GSM diagnostic test. Upon test completion, the KP-250 PG2 will present the test result.

The following table presents the test result messages

Message	Description
Unit is OK	GSM / GPRS is functioning correctly
GSM com. loss	GSM/GPRS module does not communicate with the Panel

[8] 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); "**NOT TST**" (results are shown without any performed test); "**NOT NET**" [device is not networked (not fully enrolled)]; "**NONE**" (keyfob 24Hr result); or "**EARLY**" (result of the last 24Hrs without statistics).

Message	Description
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	PowerManage 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	PowerManage denies the connection request. Check that the panel is registered to PowerManage

3.9.4 Testing the SIM Number

The PowerMaster enables to test the SIM number to ensure the SIM number was entered correctly in the control panel (see section 3.6.7) and to coordinate with the operator.

07:DIAGNOSTICS OK ▶▶ ··· ▶▶ **SIM NUMBER TEST** OK ··· **Tst by IP RCVR 1** OK

Enter the "**SIM NUMBER TEST**" menu, select the IP server (out of two) used for the verification of the SIM and press OK. The panel sends a test SMS to the server.

If the server receives the SMS, the KP-250 PG2 will display "**SIM# verified**" and the test ends successfully. If the SMS was not received, for example, if there is no connection between the control panel and server, the KP-250 PG2 will display "**SIM not verified**".

During testing, the following messages are displayed and can help to troubleshoot problems:

Message	Description
SIM # verified	Test successful
SIM NOT verified	Test fails
SIM TEL. missing	Test fails because the panel SIM is not defined
GSM init	Test is in progress waiting for GSM modem to initialize
Connect srvr	Test is in progress waiting for connection to the server

Request SMS	Test is in progress requesting server to send SMS
Wait for SMS	Test is in progress waiting to receive SMS from server

3.9.5 Testing the Broadband/PowerLink Module

The Broadband diagnostic procedure enables to test the communication of the Broadband Module (see section 3.6.8) with the PowerManage server and reports the diagnostic result. In case of communication failure, detailed information of the failure is reported.

07:DIAGNOSTICS OK ▶▶ ··· ▶▶ **BROADBAND MODULE** OK ··· **PLEASE WAIT… Unit is OK**

Notes:

1. *When the* OK *button is pressed, the test result may take up to 4 min. before it is displayed.*
2. *If the Broadband Module is not registered to the PowerMaster, the menu "BROADBAND MODULE" will not be displayed.*

The following table presents the list of messages that may be reported:

Message	Description
BROADBAND MODULE UNIT IS OK	Broadband Module is functioning correctly.
BROADBAND MODULE TEST ABORTED	The diagnostic test is aborted, as follows: • AC failure – Broadband Module is set to OFF mode. • Broadband Module has not completed the power-up procedure. In this case, the installer should wait a maximum of 30 seconds before re-testing.
BROADBAND MODULE COM. LOSS	The RS-232 serial interface between the Broadband Module and the PowerMaster failed.
BROADBAND MODULE BBA RCVR IP MISS	Receivers IP 1 and 2 settings are missing in the PowerMaster.
BROADBAND MODULE CABLE UNPLUGGED	The Ethernet cable is not connected to the Broadband Module.
BROADBAND MODULE Check lan config	This message appears in any of the following cases: • Incorrect Broadband Module IP has been entered. • Incorrect subnet mask has been entered. • Incorrect default gateway has been entered. • DHCP server failure.
BROADBAND MODULE RCVR#1 UNREACH **BROADBAND MODULE RCVR#2 UNREACH**	Receiver 1 or 2 is inaccessible, as follows: • Wrong receiver IP has been entered. • Receiver failure. • WAN Network failure.
BROADBAND MODULE	The PowerMaster unit is not registered to IP receiver 1 or 2.

Message	Description
RCVR#1 UNREG	
BROADBAND MODULE RCVR#2 UNREG	
BROADBAND MODULE TIMEOUT ERR.	Broadband Module does not respond to test result within 70 sec.
BROADBAND MODULE INVALID RESULT	Broadband Module responds with a result code that is not recognized by the PowerMaster.

3.10 User Settings

This USER SETTINGS menu provides you with a gateway to the user settings through the regular user menus. Refer to the KP-250 PG2 User's Guide, Chapter 6 for detailed procedures.

3.11 Factory Default

The FACTORY DEFLT menu enables you to reset the KP-250 PG2 parameters to the factory default parameters or to delete all the PowerG devices that are enrolled in the system. To obtain the relevant parameters defaults, contact the PowerMaster dealer. Reset factory default parameters as follows:

Step 1 Enter "09:FACTORY DEFLT" menu	ⓘ [1]	**Step 2** Select "leave KP250" or "del all devices"	ⓘ [2]
▶▶		▶▶	
09:FACTORY DEFLT	OK	**09:FACTORY DEFLT** **leave KP250** ■ ↓ or **09:FACTORY DEFLT** **del all devices** ■	OK
Step 3 Press OK	ⓘ [3]	**Step 4** Enter the Installer Code	ⓘ [4]
<OK> to confirm Leave KP250	OK	**ENTER CODE**	
or		↓	
<OK> to confirm del all devices		**Communicating <...>**	

ⓘ	ⓘ ***– Performing Factory Default***
[1]	Enter the **Installer Menu** and select the **"09:FACTORY DEFLT "** menu (see section 3.2).
[2]	Select "leave KP250" to reset factory default parameters, or, press → and select "del all devices" to delete all devices in the system.
[3]	Press ⓘ|OK to confirm.

[4] Enter the Installer Code (9999 by default).

Notes:

1) There is a brief pause after which all factory defaults are restored or devices are deleted from the system.

2) To abort the procedure, press ESC *to return to "09:FACTORY DEFAULT" or*  *to take you to "<OK> to Exit".*

Notes:

1. For KP-250 PG2 with 2 installer codes, INSTALLER code and MASTER INSTALLER code, only the master installer code enables to perform the factory default function.

2. If the Soak Test is active, performing factory default will restart the Soak Test.

3.12 Serial Number

The SERIAL NUMBER menu enables reading the system serial number and similar data for both PowerMaster control panel and KP-250 PG2 keypad for support purposes only. To read the system serial number and other relevant data, complete the following steps:

Step 1	ⓘ	Step 2	ⓘ	Step 3
Select "10:SERIAL NUMBER" menu	[1]	Click next repeatedly to view relevant data.	[2]	

▶▶ ⮆ ▶▶ ⮆

10:SERIAL NUMBER OK OK ⮌ to Step 1

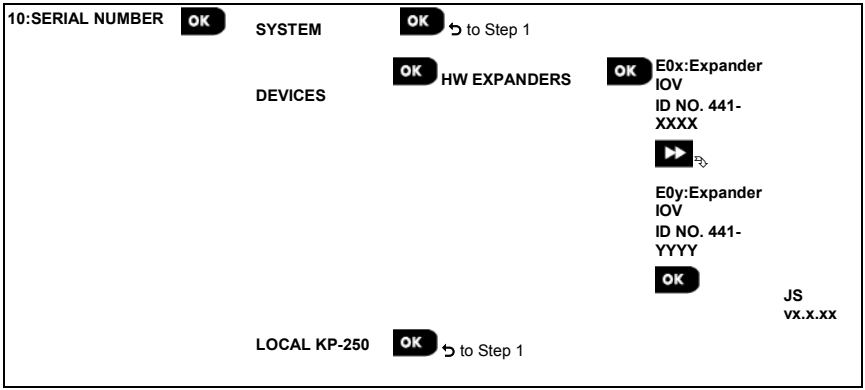
	Definition
PRODUCT SN 0907030000.	Control panel serial number
SW CAT & SN JS702275 K18.022	Control panel software version
LCD CAT SN JS700421 v1.0.02	Control Panel keypad software version[9]
PANEL ID 123456	Control panel ID for PowerManage connectivity
PYTHON VERSION FFFFFFFF	GSM image transfer software version
EE CAT & SN J-702271 K18.022	Control panel default version
KP250 SW VER 01.00.09	KP-250 PG2 keypad software version
KP250 cat.number 70245100	KP-250 PG2 keypad catalog number
RSU VERSION JS702415 K01.034	Software upgrade communicator version
BOOT VERSION JS702412 K01.022	Software upgrade boot/programmer version
EXPANDER CAT & VER	Expander catalog number and version
GSM MODEM ID	GSM modem ID number
PL7.5.86 1111	PLink version

The following sub-menus can be viewed under the **10: SERIAL NUMBER** menu:

Step 1	ⓘ	Step 2	ⓘ	Step 3
Select "10:SERIAL NUMBER" menu	[1]	Click next repeatedly to view relevant data.	[2]	

▶▶ ⮆ ▶▶ ⮆

[9] Refers to PowerMaster-30 G2 only



3.13 Partitioning

3.13.1 General Guidance – "Partitioning" Menu

This menu allows you to enable/disable partitions in the system (for further details, see APPENDIX B).

3.13.2 Enabling / Disabling Partitions

To enable or disable the partition feature, complete the following steps:

Step 1	Step 2	Step 3
Select "12:PARTITIONING" menu	Select whether to "Enable" or "Disable" Partitions	
▶▶	▶▶	Partitions are now enabled
12:PARTITIONING **disable** OK	**12:PARTITIONING** **disable** ■ OK ↓ **12:PARTITIONING** **enabled**	**12:PARTITIONING** **enabled** ■

Step 4
Press ESC *to return to "12:PARTITIONING" or* 🗑 *to take you to "<OK> to Exit".*

3.14 Operation Mode

Note: *The Operation Mode feature is applicable only in specific PowerMaster variants.*

3.14.1 General Guidance – "Operation Mode" Menu

This mode allows you to select an operation mode for the control panel according to specific compliance standards. Each operation mode has its own configuration.

3.14.2 Select Setting

To select the desired operation mode, complete the following steps:

Step 1	Step 2	Step 3	Step 4
Select "13:OPERATION MOD" menu	Enter "01:SELECT MODE"	Select between "**normal**[1]", "**EN-50131**", "**DD243**", "**BS8243**", "**Incert**[1]" and "**CP01**[1]"	
▶▶	▶▶	▶▶	
13:OPERATION MODE OK	**01:SELECT MODE** **normal** OK	**01:SELECT MODE** **normal** ■ OK	↩ to Step 1

Note: *If "**normal / EN-50131 / INCERT**" is selected, the control panel will operate according to the OTHERS setup configuration (see section 3.14.6).*

[1] *The following options **normal**, **Incert**, and **CP01** are not available for all configurations.*

3.14.3 BS8243 Setup

13:OPERATION MOD OK ▶▶ ... ▶▶ **02:BS8243 SETUP** OK

Enter the "**02:BS8243 SETUP** " menu, and press OK to configure its settings.

Option and default	Configuration Instructions
01:DISARM OPTION **entry/BS devs**	Define when it is possible to disarm the system: **entry/BS devs** – By keypad after the entry delay has expired and if an alarm occurred in the system. By keyfob or keyprox at all times. **anytime/all dev** – At any time and by all devices. **entry/all devs** - During entry delay, when the system is armed AWAY, by all devices. When not in entry delay by keyfob or keyprox only. **entry/DD devs** - During entry delay, when the system is armed AWAY, by using the keyfob or keyprox. Keypads cannot disarm at all.
02:ENTRY ALARM **BS8243**	Define whether the system will report a confirmed alarm during an entry delay (see CONFIRM ALARM below). **BS8243** – An alarm initiated by another detector during the entry delay is regarded as a confirmed alarm. An additional 30 seconds delay is added to the entry delay for reporting the event (does not affect the Abort Time, see section 3.5.4). **BS8243 no cnfrm** - The panel will not send any confirmed alarm once a delay zone has been activated, until the control panel is disarmed. **DD243** - An alarm initiated by another detector during the entry delay is not regarded as a confirmed alarm. **normal mode** - The control panel will report a confirmed alarm for the second alarm that is triggered from a different zone within the confirmation time. There are no alarm restrictions during entry delay or for the delay zone.
03:END EXIT MODE **door/fob only**	Define how the exit delay is terminated or restarted according to the following options: **door/fob only** - When the door is closed, or by pressing the AUX button on the keyfob[1], whichever first. **fob/timer** - By pressing the AUX button on the keyfob[10], or when the exit delay has expired, whichever first. **restart>reentry** - 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 was left behind. **door/fob/timer** - When the door is closed, by pressing the AUX button on the keyfob[1], or when the exit delay has expired, whichever first.
04:FOB/KP PANIC **BS8243**	Define the devices that cannot trigger a panic alarm. **BS8243** – KF-234 PG2 and KF-235 PG2. **all** - All devices can trigger a panic alarm

[10] Applies only when the keyfob is defined as "skip exit delay" (for further details, see the keyfob's User's Guide)

05:CONFIRM ALARM in 30 minutes

Define a specific time period that if 2 successive alarms occur, the second alarm will be considered as a **confirmed alarm**, (see RPT CNFM ALRM below).

Options: **in 30/45/60/90 minutes**

06:CONFIRM PANIC in 20 hours

A confirmed panic alarm is reported if one of the following occurs within the confirmation time:

a) A second panic device is activated.
b) A second panic alarm on the same device is activated.
c) A tamper event is activated (not from the zone / device that initiated the panic alarm).

Options: **in 4/8/12/20/24 hours** and **disable**

07:RPT CNFM ALRM enable+bypass

Define whether the system will report a confirmed alarm.
enable+bypass (default) - The system will report a confirmed alarm and will bypass all alarmed open zones when the siren ends or when the confirmation timer expires.
disable - The system will not report a confirmed alarm.
enable - The system will report a confirmed alarm.

08:ENTRY DELAY 1 30 seconds

09:ENTRY DELAY 2 60 second

Two different entry delays allow the user to enter the protected site (while the system is in the armed state) via 2 specific 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. Locations No. 1 (entry delay 1) and 2 (entry delay 2) allow you to program the length of these delays.

Options: **10/15/30/45/60 seconds**; **3/4 minutes**

10:ABORT TIME in 30 seconds

The PowerMaster can be configured to provide a delay before reporting an alarm to the monitoring station (not applicable to alarms from FIRE, 24H SILENT and EMERGENCY zones). During this delay period, the siren sounds but the alarm is not reported. If the user disarms the system within the delay time, the alarm is aborted. You can activate the feature and select the "Abort Time" interval.

Options: **in 00/15/30/45/60 seconds**; **in 2/3/4 minutes**

11:CANCEL ALARM in 5 minutes

The PowerMaster 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.

Options: **in 1/5/15/60 minute/s**; **in 4 hours** and **not active**

3.14.4 DD243 Setup

13:OPERATION MOD OK ▶▶ ... ▶▶ **03:DD243 SETUP** OK

Enter the "**03:DD243 SETUP**" menu, and press OK to configure its settings.

Option and default	Configuration Instructions
01:DISARM OPTION **entry/DD devs**	Define when it is possible to disarm the system: **entry/DD devs** - During entry delay, when the system is armed AWAY, by using the keyfob or keyprox. Keypads cannot disarm at all. **entry/wl+away kp**– By the control panel when the system is armed AWAY. By keyfob or keyprox during entry delay only. **anytime/all dev** – At any time and by all devices. **entry/all devs** - During entry delay, when the system is armed AWAY, by all devices. When not in entry delay by keyfob or keyprox only.
02:ENTRY ALARM **DD243**	Define whether the system will report a confirmed alarm during an entry delay (see CONFIRM ALARM below). **DD243** - An alarm initiated by another detector during the entry delay is not regarded as a confirmed alarm. **normal mode** - The control panel will report a confirmed alarm for the second alarm that is triggered from a different zone within the confirmation time. There are no alarm restrictions during entry delay or for the delay zone.
03:END EXIT MODE **fob/timer**	Define how the exit delay is terminated or restarted according to the following options: **fob/timer** - By pressing the AUX button on the keyfob[11], or when the exit delay has expired, whichever first. **restart>reentry** - 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 was left behind. **door/fob/timer** - When the door is closed, by pressing the AUX button on the keyfob[1], or when the exit delay has expired, whichever first. **door/fob only** - When the door is closed, or by pressing the AUX button on the keyfob[1], whichever first.
04:FOB/KP PANIC **DD243**	Define the devices that cannot trigger a panic alarm. **DD243** – KF-234 PG2 and KF-235 PG2. **all** - All devices can trigger a panic alarm
05:CONFIRM ALARM **in 60 minutes**	Define a specific time period that if 2 successive alarms occur, the second alarm will be considered as a **confirmed alarm**, (see RPT CNFM ALRM below). Options: **disable** and **in 30/45/60/90 minutes**
06:CONFIRM PANIC	A confirmed panic alarm is reported if one of the following occurs within the

[11] Applies only when the keyfob is defined as "skip exit delay" (for further details, see the keyfob's User's Guide)

Option and default	Configuration Instructions
in 20 hours	confirmation time: a) A second panic device is activated. b) A second panic alarm on the same device is activated. c) A tamper event is activated (not from the zone / device that initiated the panic alarm). Options: **in 4**/**8**/**12**/**20**/**24 hours** and **disabled**
07:RPT CNFM ALRM **enable+bypass**	Define whether the system will report a confirmed alarm. **enable+bypass** - The system will report a confirmed alarm and will bypass all alarmed open zones when the siren ends or when the confirmation timer expires. **disable** - The system will not report a confirmed alarm. **enable** - The system will report a confirmed alarm.
08:ENTRY DELAY 1 **30 seconds** **09:ENTRY DELAY 2** **60 seconds**	Two different entry delays allow the user to enter the protected site (while the system is in the armed state) via 2 specific 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. Locations No. 1 (entry delay 1) and 2 (entry delay 2) allow you to program the length of these delays. Options: **10**/**15**/**30**/**45**/**60 seconds**; **3**/**4 minutes**
10:ABORT TIME **in 30 seconds**	The PowerMaster can be configured to provide a delay before reporting an alarm to the monitoring station (not applicable to alarms from FIRE, 24H SILENT and EMERGENCY zones). During this delay period, the siren sounds but the alarm is not reported. If the user disarms the system within the delay time, the alarm is aborted. You can activate the feature and select the "Abort Time" interval. Options: **in 00**/**15**/**30**/**45**/**60 seconds**; **in 2**/**3**/**4 minutes**
11:CANCEL ALARM **in 5 minutes**	The PowerMaster 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. Options: **in 1**/**5**/**15**/**60 minute/s**; **in 4 hours** and **not active**

3.14.5 CP01 Setup

13:OPERATION MOD OK ▶▶ ··· ▶▶ **04:CP01 SETUP** OK

Enter the "**04:CP01 SETUP**" menu, and press ℹ|OK to configure its settings.

Option and default	Configuration Instructions
01:DISARM OPTION **any time**	Certain regulations require that 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 provides you with the following configurable options to disarm the system: **A:** At "**any time**" (default), the system can be disarmed at all times from all devices. **B:** During entry delay, the system can be disarmed only using keyfob or prox operated devices ("**on entry wrless**"). **C:** During entry delay by code, the system can be disarmed only using PowerMaster panel keypad ("**entry + away kp.**"). **D:** During entry delay, the system can be disarmed using keyfobs or by code using the PowerMaster panel keypad ("**on entry all.**").
03:END EXIT MODE **restrt+arm home**	Define how the exit delay is terminated or restarted according to the following options: **restart+arm home** – During exit delay if the door was not opened, the alarm system will be armed HOME instead of armed AWAY. **fob/timer** - By pressing the AUX button on the keyfob[12], or when the exit delay has expired, whichever first. **restart>reentry** - 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 was left behind. **door/fob/timer** - When the door is closed, by pressing the AUX button on the keyfob[1], or when the exit delay has expired, whichever first.
05:CONFIIRM ALARM **in 60 minutes**	Define a specific time period that if 2 successive alarms occur, the second alarm will be considered as a **confirmed alarm**, (see **RPT CNFM ALRM** below). Options: **disable** and **in 30/45/60/90 minutes**
07:RPT CNFM ALRM **disable**	Define whether the system will report a confirmed alarm. **enable+bypass** - The system will report a confirmed alarm and will bypass all alarmed open zones when the siren ends or when the confirmation timer expires. **rprt disabled** - The system will not report a confirmed alarm. **rprt enabled** - The system will report a confirmed alarm.
08:ENTRY DELAY 1 **30 seconds** **09:ENTRY DELAY 2**	Two different entry delays allow the user to enter the protected site (while the system is in the armed state) via 2 specific 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. Locations No. 1 (entry

[12] Applies only when the keyfob is defined as "skip exit delay" (for further details, see the keyfob's User's Guide)

Option and default	Configuration Instructions
30 seconds	delay 1) and 2 (entry delay 2) allow you to program the length of these delays.
	Options: **30/45/60 seconds**; **3/4 minutes**
10:ABORT TIME in 15 seconds	The PowerMaster can be configured to provide a delay before reporting an alarm to the monitoring station (not applicable to alarms from FIRE, 24H SILENT, EMERGENCY, GAS FLOOD and TEMPERATURE zones). During this delay period, the external siren will not sound and the alarm is not reported. If the user disarms the system within the delay time, the alarm is aborted.
	Options: **in 15/30/45 seconds**
11:CANCEL ALARM in 5 minutes	Define the "cancel alarm" period that starts upon reporting an alarm to the Monitoring Station. If the user disarms the system within that time period, a "cancel alarm" message is sent to the Monitoring Station.
	Options: **in 5/15/60 minutes**; **in 4 hours**
12:CNCEL ANOUNCE enable	Define whether a special beep will sound when an alarm cancel event is sent to the monitoring station.
	Options: **enable** and **disable**
13:ABORT ANOUNCE enable	Define that when the user disarms the system within the allowed abort interval a special beep will sound to indicate "no alarm transmission".
	Options: **enable** and **disable**

3.14.6 OTHERS SETUP or EN50131 SETUP

13:OPERATION MOD OK ▶▶ ... ▶▶ **05:OTHERS SETUP** or **EN50131 SETUP** OK

Enter the "**05: OTHERS SETUP** or **EN50131 SETUP**" menu, and press OK to configure its settings.

Option and default	Configuration Instructions
01:DISARM OPTION anytime	Certain regulations require that 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 provides you with the following configurable options to disarm the system: **A:** At "**any time**" (default), the system can be disarmed at all times from all devices. **B:** During entry delay, the system can be disarmed only using keyfob or prox operated devices ("**on entry wrless")**. **C:** During entry delay by code, the system can be disarmed only using PowerMaster panel keypad ("**entry + away kp.**"). **D:** During entry delay, the system can be disarmed using keyfobs or by code using the PowerMaster panel keypad ("**on entry all.**").
03:END EXIT MODE normal	The "Exit Delay" time can be further adjusted according to your preferred exit route. The KP-250 PG2 provides you with the following "Exit Mode" options:

Option and default	Configuration Instructions
	normal – The exit delay is exactly as defined. **restart>reentry** - 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 was left behind. **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.
05:CONFIRM ALARM in 60 minutes	Define a specific time period that if 2 successive alarms occur, the second alarm will be considered as a **confirmed alarm**, (see **RPT CNFM ALRM** below). Options: **disable** and **in 30/45/60/90 minutes**
07:RPT CNFM ALRM disable	Define whether the system will report a confirmed alarm. **disable** - The system will not report a confirmed alarm. **enable** - The system will report a confirmed alarm.
08:ENTRY DELAY 1 30 seconds **09:ENTRY DELAY 2 15 seconds**	Two different entry delays allow the user to enter the protected site (while the system is in the armed state) using 2 specific 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. Locations No. 1 (entry delay 1) and 2 (entry delay 2) allow you to program the length of these delays. Options: **00/15/30/45/60 seconds**; **2/3/4 minutes**
10:ABORT TIME in 30 seconds	The PowerMaster can be configured to provide a delay before reporting an alarm to the monitoring station (not applicable to alarms from FIRE, 24H SILENT, EMERGENCY, GAS FLOOD and TEMPERATURE zones). During this delay period, the external siren will not sound and the alarm is not reported. If the user disarms the system within the delay time, the alarm is aborted. Options: **in 00/15/30/45/60 seconds; in 2/3/4 minutes**
11:CANCEL ALARM in 5 minutes	Define the “cancel alarm” period that starts upon reporting an alarm to the Monitoring Station. If the user disarms the system within that time period, a “cancel alarm” message is sent to the Monitoring Station. Options: **not active** and **in 1/5/15/60 minutes**; **in 4 hours**

4. Periodic Test by Installer Code

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 a 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, complete the following steps:

Step 1	ⓘ	Step 2	ⓘ
READY	[1]	Select the test to be performed	[2]
▶▶ ↓			
PERIODIC TEST	OK	**SIRENS TEST**	OK
(enter installer / master code)		**TEMPERATURE/LIGHT TEST**	
		TEST ALL DEVICES	
		TEST ONE DEVICE	
		<OK> to Exit	

ⓘ	ⓘ ***– Periodic Test***
[1]	Not including Siren and Temperature Sensors
[2]	After reviewing all untested devices the KP-250 PG2 will read "**<OK> TO END**". You can now do one of the following: press i | OK to abort the testing procedure; press →► to continue the testing procedure; or press 🗑 to exit the testing procedure.

4.2 Conducting a Periodic Test

The KP-250 PG2 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/Light Sensor Test: When Temperature/Light Sensors are enrolled in the system, the KP-250 PG2 displays the temperature of each zone in Celsius or Fahrenheit, and the light threshold (if available) of each zone.

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 OK ▶▶ ··· ▶▶ **PERIODIC TEST** OK ▶▶ ··· ▶▶ **MENU you wish** 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 LEDs on the panel and all 5 LEDs on the KP-250 PG2 keypad will momentarily light (LED test).

Option	Instructions

Option	Instructions
SIRENS TEST	You can test wireless sirens and strobes and sirens of smoke sensors and keypads. To initiate the siren test press OK. The display now reads "**SIREN N**" ↵ "**<NEXT> or <OK>**". "**N**" indicates the zone location assigned to the siren that is currently being tested. First the panel siren sounds for 1 second after which the PowerMaster 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. Once all the sirens have been tested, the control panel will now test the sirens of smoke sensors that are enrolled in the alarm system. The display now reads "**Zxx: SMOKE SIREN**" ↵ "**<NEXT> or <OK>**", where "**Zxx**" indicates the zone number of the smoke sensor. During this time, the siren of the tested smoke sensor will sound for 10 seconds. Press OK to test the siren of the next smoke sensor. Once all the sirens of the smoke sensors have been tested, the control panel will now test the sirens of keypads that are enrolled in the alarm system. The display now reads "**Kxx: KEYPAD SIREN**" ↵ "**<NEXT> or <OK>**", where "**Kxx**" indicates the zone number of the keypad. During this time, the siren of the tested smoke sensor will sound for 10 seconds. When the sirens test is complete, the display reads "**SIREN TEST ENDED**". Press the OK or the → button to confirm the test.
TEMP/LIGHT	The KP-250 PG2 reads the temperature and light intensity of the zone. When testing, all previous temperature and light results from sensors are cleared. To display the temperature and light intensity of zones on the KP-250 PG2, press OK. After 20 seconds, the KP-250 PG2 displays the temperature, the sensor number and the sensor location, as in the following example: "**Z01 24.5ºC**" ↵"**Z01:Temp. Sensor**" changes to "**Custom**". Repeatedly click the → button to review the temperature of each zone (by Temperature Sensor). If there is no result the following message is displayed: **Zxx TEMP: No TST**. The light level indication is dynamic, that is, if a detector has only two light thresholds defined, the following displayed on the KP-250 PG2: • For 100% light: LIGHT (**) • For complete darkness: LIGHT () If there is no light result, the following message is displayed: **Zxx LIGHT: No TST**. The display alternates between the temperature, light sensor number, and the sensor location, as in the following example: **Z01 24.5°C > Z01: LIGHT (**) > Z01: Sensor number > Room location.** When the temperature and light of all zones has been reviewed, the display reads "**DEVICE TEST ENDED**". Press the OK or the → button to confirm the test and then move to the next step to test the other devices.
TEST ALL DEVICES	You can test all devices in one procedure.

Option	Instructions
	Pressing OK during the testing process will display details of each device that has not yet been tested. The KP-250 PG2 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. **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 KP-250 PG2 reads "**DEVICE TESTS END**".
E-MAIL TEST	To test emails, proceed as follows: While in **E-MAIL TEST**, press OK to initiate the test. The following message appears on the screen: **Please wait…** At the termination of the test, the following message appears on the screen: **<Pls chck MailBox>.** Check the private e-mail inbox to view the sent e-mail. ***Note:*** *1. For test success, the event must first reach the server before the server can send the email to the user's inbox.* *2. Because a burglary alarm is sent, an alarm event must be configured for reporting events (see sections* 4.6.3 Configuring Events Reporting to Monitoring Stations *and* 4.6.4 Configuring Events Reporting to Private Users*).*
TEST ONE DEVICE OK **CONTACT SENSORS** **MOTION SENSORS** **GLASSBREAK SENS.** **SHOCK SENSORS**	Select a specific device group you wish to test. For example, Motion Sensors. 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: "**Xxx:<device name>**" ↵ **<location>** Where "**Xxx**" indicates the device 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 the last selected device group.

Option	Instructions
	To test the microwave range of the dual detector: **1.** Press OK to enter the "**TEST ONE DEVICE**" sub menu and use ▶▶ to navigate to "**MOTION SENSORS**". **2.** Press OK; the following screens will appear: "**Z01:Motion Sens**" ↻ **<location>**. **3.** Press ▶▶ continuously to select a different zone number. **4.** Press OK; If the selected device is Tower-32AM PG2, the following screens will appear: "**<OK MW ADJUST>**" ↻ **"<NEXT> TEST ONE"**. To test the microwave range, go to step 5. To test a different microwave range, go to step 7. **5.** Press ▶▶; the following screen will appear: "**ACTIVATE MW NOW**". **6.** Activate the device; the screen will return to "**TEST ONE DEVICE**". You can now repeat the procedure for another dual detector. **7.** Press OK to select the sensitivity setting. **8.** Press ▶▶ continuously to select between "**Minimum**" (default), "**Medium**" or "**Maximum**" **9a**. Press OK; the panel will receive an acknowledgement from the device that is indicated by a black box next to the selected setting. Thereafter, the screen momentarily changes to "**ACTIVATE MW NOW**" and then returns to the selected setting. **9b**. If you press ⌂, the adjustment procedure ends. **Important**: The procedure mentioned above is for testing purposes only and does not change the detector settings. The settings must be saved through the MODIFY DEVICES menu. **To test the shock detector:** **1.** Press OK to enter the "**TEST ONE DEVICE**" sub menu and use ▶▶ to navigate to "**SHOCK SENSORS**". **2.** Press OK; the following screens will appear: "**Zxx:Shk+AX+CntG3**"[13] ↻ **<location>**. **3.** Press ▶▶ continuously to select a different zone number. **4.** Press OK; the following screens will appear: "**Zxx ACTIVATE NOW**" ↻ **"SHOCK NOT ACTIV**." ↻ **"CNTACT NOT ACTIV"** ↻ **"AUXIL. NOT ACTIV**". ***Note:*** *The above screens are the full range of screens that can appear and indicate the inputs that have not yet been activated. However, since there are various models of the shock detector, not all of these screens will appear on some models.* **5.** At this stage, activate each input of the shock detector in turn.

[13] Depending on shock detector model, one of the following may appear instead: "**Zxx:Shk+AX**" / " **Zxx:Shk+CntG3**" /" **Zxx:Shk+CntG2**".

Option	Instructions
	To test motion detector with integrated camera (Next CAM PG2 or TOWER CAM PG2): **1.** Press OK to enter the "**TEST ONE DEVICE**" sub menu and use ▶▶ to navigate to "**MOTION SENSORS**". **2.** Press OK; the following screens will appear: "**Z01:Motion Sens**" ⮌ **<location>**. **3.** Press ▶▶ continuously to select a different zone number. **4.** Press OK; the following screen will appear: "**Zxx ACTIVATE NOW**". **5.** Activate the input of the detector; the following screens will appear: "**<Zxx IS ACTIVATE>**" ⮌ **"<OK> SEND IMAGE"**.

5. Handling System Troubles

Fault	What it means	Solution
1-WAY	The control panel cannot configure or control the device. Battery consumption increases.	1. Make sure the device is physically present. 2. Check the display for device faults, for example, low battery. 3. Use RF diagnostics to check the current signal strength and during the last 24 hours. 4. Open the device cover and replace the battery or press the tamper switch. 5. Install the device in a different location. 6. Replace the device.
AC FAILURE	There is no power to gas sensor	Make sure that the AC power supply is connected properly
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
FIRE CLEAN	The fire detector must be cleaned	Use a vacuum cleaner to clean the detector air vents occasionally to keep them free of dust.
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)	1. Check telephone cable connection 2. Check that correct telephone number has been dialed. 3. 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 (refer to the PowerMaster-10/30 G2 Installer's Guide, section 7.3, or, PowerMaster-33 G2 Installer's Guide, section 5.2).	1. Check for AC power is available in the Panel. 2. If trouble exists for more than 72 hours, replace the battery pack
CPU TAMPER OPEN	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 FAILURE	The PGM fuse is burnt out or overloaded.	Make sure that the connection load conforms to that specified in the Specifications.
GAS TROUBLE	Gas detector failure	Gas detector: Disconnect and then put back the AC power supply connector. CO Gas detector: Replace the detector.
GSM NET FAIL	The GSM communicator is not able to connect to the cellular network.	1. Move the Panel and GSM unit to another location.

Fault	What it means	Solution
		2. Enter and exit the installer menu 3. Disconnect GSM unit and install it again 4. Replace SIM card 5. Replace the GSM unit
SYSTEM JAMM	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.
LINE FAILURE	There is a problem with the telephone line	1. Lift the telephone receiver and make sure a telephone line can be heard 2. Check the telephone connection to the control panel
LOW BATTERY	The battery in a sensor, keyfob or wireless commander is near the end of its useful life.	1. For AC powered devices, check AC power is available and connected to the device. 2. Replace the device battery.
MISSING	A device or detector has not reported for some time to the control panel.	1. Make sure the device is physically present. 2. Check the display for device faults, for example, low battery. 3. Use RF diagnostics to check the current signal strength and during the last 24 hours. 4. Replace the battery. 5. Replace the device.
NOT NETWORKED	A device was not installed or not installed correctly, or, cannot establish communication with the control panel after installation.	1. Make sure the device is physically present. 2. Use RF diagnostics to check the current signal strength and during the last 24 hours. 3. Open the device cover and replace the battery or press the tamper switch. 4. Enroll the device again.
RSSI LOW	The GSM communicator has detected that GSM network signal is weak	Move the Panel and GSM unit to another location.
SIREN AC FAILURE	There is no power to the siren	Make sure that the AC power supply is connected properly
TAMPER OPEN	The sensor has an open tamper	Close sensor tamper
TROUBLE	The sensor reports trouble	Replace the sensor

Fault	What it means	Solution
SOAK TEST FAIL	Detector alarms when in Soak Test mode	If you wish to continue the Soak Test, no further action should be taken. If you wish to abort the Soak Test, disable the Soak Test (see section 3.4.6).

6. Reading the Event Log

Up to 100 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.

Note: *Up to 1000 events are stored in the event log that can be reviewed via the Remote Programmer PC software application or by the remote PowerManage server.*

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 (not through the installer's menu). The reading and erasing process of the event log is shown in the following table:

Step 1 ⓘ	**Step 2** ⓘ	**Step 3** ⓘ
In normal operating mode [1]	Enter Installer Code [2]	Reviewing Events [3]
00:00 READY [*]	**PRESENT TAG OR ENTER CODE** ■ ↓ **KP-250 LIST OF EVENTS** [OK]	[→] **Z13 ALARM 09/02/11 3:37 P**
Step 4 ⓘ	**Step 5** ⓘ	**Step 6** ⓘ
Scroll List of Events [4]	CLEAR EVENT LOG display [5]	Erase the Event Log [6]
[OK] **SR2 TAMPER ALARM 07/02/11 11:49 A**	[▶▶] ⇨ **CLEAR EVENT LOG** [OK]	[→] **KP-250 <DEL> to Delete**
Step 7 ⓘ	**Step 8** ⓘ	
Event Log is erased [7]	Returns to normal operating mode [8]	
KP-250 <OK> to Exit [OK]	[▶▶] ⇨ **00:00 READY** [OK]	

ⓘ	ⓘ - ***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**" and "**09/02/10 3:37 P**".

Note: *In* ***Soak Test*** *mode, the panel displays the alarmed zone and alternates with "****Zxx:Soak T.Fail****".*

[4] Press → repeatedly to scroll through the list of events.

Erasing and Exiting the Event Log:

[5] From anywhere within the event log, press the → button and then press OK.

[6] At this stage in the procedure, clicking the ESC button 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.

[7] The system erases the event log and a success beep is heard.

[8] Press OK to revert to normal operating mode.

Clicking the ESC 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

Frequency Band (MHz)	Europe and rest of world: 433-434, 868-869 USA: 912-919
Communication Protocol	PowerG
Battery type	Four 1.5V AA Alkaline batteries
Battery Life Expectancy	3 years (for typical use).
Low Battery Threshold	4.4 V
Power source	**Battery:** 4.8VDC – 6VDC
Back light	Blue (keypad) / white (display)
Operating Temperature	0°C to 55°C (32°F to 131°F)
Humidity	Average relative humidity of approx. 75% non-condensing. For 30 days per year, relative humidity may vary from 85% to 95% non-condensing.
Dimensions (WxLxD)	150x100x20mm (5-7/8 x 3-7/8 x 13/16 in)
Weight (including battery and bracket)	379 g (13 oz).
Mounting	Wall-mounted or desktop
Color	White

APPENDIX B: Working with Partitions

Your alarm system is equipped with an integrated partitioning feature that can divide your alarm system into three distinct areas identified as Partition 1 through 3. A partition can be armed or disarmed regardless of the status of the other partitions within the system. 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. Each user code is assigned with the list of partitions it is allowed to control in order to limit access of users to certain partitions.

When partitioning is enabled, menu displays are changed to incorporate the partition feature and also each device, user, and proximity tag has additional partitions menu, where it is assigned to certain partitions and excluded from others.

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

B1. User Interface and Operation

Refer to the KP-250 PG2 User's Guide, APPENDIX B. PARTITIONING for a detailed description of the user interface (Arming/Disarming, siren behavior, show function, etc.).

B2. Common Areas

When partitions cross over, the area common to the partitions must be assigned a zone. This common zone is assigned to multiple partitions and can be crossed by all users that are assigned to the 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 access **(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 access **(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 E/E **(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.
Emergency; Fire; Flood;	• Always armed.

Common area zone types	Definition
Gas; Temperature; 24-hour silent; 24-hour audible	
Non alarm	• Always ignored. There are no alarms for non-alarm zone types. Can be used for example to activate PGMs without alarms in all modes.
Outdoor	• Acts as defined only after the last assigned partition is armed HOME or AWAY.
Arming key	• Arming all assigned partitions.
Tamper, Line Fail, PSU Fail, Panic	• Always armed.
Non alarm	• Always ignored. There are no alarms for non-alarm zone types. Can be used for example to activate PGMs without alarms in all modes.
Outdoor	• Acts as defined only after the last assigned partition is armed HOME or AWAY.
Arming key	• Arming all assigned partitions.
Tamper, Line Fail, PSU Fail, Panic	• Always armed.

Note: *A Soak Test of Common areas cannot be initiated when one of its partitions is armed. When Soak Test of a Common area is active, an alarm event is ignored unless all the partitions that are assigned to the zone are armed.*

APPENDIX C: Glossary

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 sounder and external siren 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, Next PG2 is a motion detector; SMD-426 PG2 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 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 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 KP-250 PG2 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 D: Compliance with Standards

Europe: EN 300 220, EN 300 330, EN 301 489, EN 50130-4, EN 60950, EN 50130-5, EN 50131-1, EN 50131-3, EN 50131-6.
The KP-250 PG2 is compatible with the RED Directive2014/53/EU of the European Parliament and of the Council of 16 April 2014.

The Power G peripheral devices have two- way communication functionality, providing additional benefits as described in the technical brochure. This functionality has not been tested to comply with the respective technical requirements and should therefore be considered outside the scope of the product's certification

Certified by **Applica T&C** in accordance with EN 50131.

UK: This product is suitable for use in systems installed to conform to PD6662:2010 at Grade 2 and environmental CLASS II. DD243 and BS8243

Security Grade: Grade 2
Environmental Class: Class II

USA: CFR 47 part 15
Canada: RSS 210

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

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

WARNING! To comply with FCC and IC RF exposure compliance requirements, the mobile version of this device 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.

Le dispositif doit être placé à une distance d'au moins 20 cm à partir de toutes les personnes au cours de son fonctionnement normal. Les antennes utilisées pour ce produit ne doivent pas être situés ou exploités conjointement avec une autre antenne ou transmetteur.

The digital circuit of 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 which supplies power to the receiver.
– Consult the dealer or an experienced radio/TV technician.
Changes or modifications not expressly approved by Visonic Ltd. could void the user's authority to operate the equipment.

W.E.E.E. Product Recycling Declaration

For information regarding the recycling of this product you must contact the company from which you orignially purchased it. If you are discarding this product and not returning it for repair then you must ensure that it is returned as identified by your supplier. This product is not to be thrown away with everyday waste.

Directive 2002/96/EC Waste Electrical and Electronic 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

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KP-250 PG2 Installer’s Guide, D-306919 (Rev 00, 04/17)

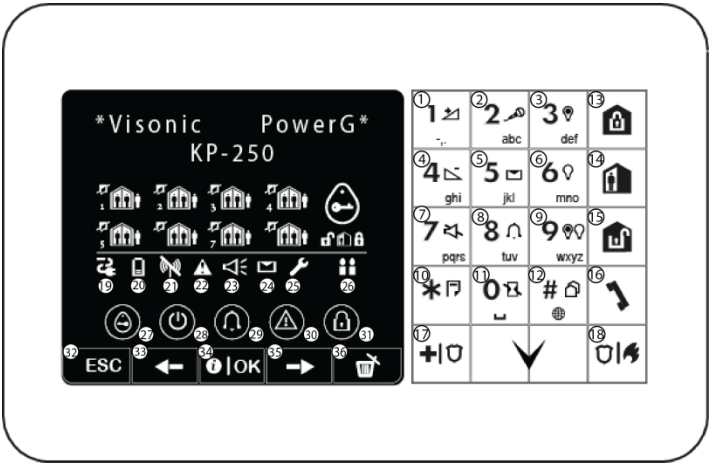
D-306919

Arming and Disarming the System

Icon/Key Indications	Arming Indication
	ARM AWAY
	ARM HOME
	DISARM
	EXIT DELAY The icons appear consecutively

Programming Functionality

Key	String Editor Functionality
0	'.', '0'
1	'.', ',', '1'
2	'a', 'A', 'b', 'B', 'c', 'C', '2'
3	'd', 'D', 'e', 'E', 'f', 'F', '3'
4	'g', 'G', 'h', 'H', 'i', 'I', '4'
5	'j', 'J', 'k', 'K', 'l', 'L', '5'
6	'm', 'M', 'n', 'N', 'o', 'O', '6'
7	'p', 'P', 'q', 'Q', 'r', 'R', 's', 'S', '7'
8	't', 'T', 'u', 'U', 'v', 'V', '8'
9	'w', 'W', 'x', 'X', 'y', 'Y', 'z', 'Z', '9'
#	Short press: toggles between **Insert** and **Overwrite**. Long press: **Changes** between **lowercase** letters (a, b, c…z) and **uppercase** letters (A, B,C…Z)
*	'!', '#', '%', '&', ''', '*', '+', '-', '/', '=', '^', '@', '_', '"', ':'
	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
	**Confirms and saves** the edited string and reverts to previous menu
ESC	**Exiting** the edit screen and moves one level up to previous or top menu without saving the edit string
	**Clears digits** of the string



1. Volume up	**13.** ARM AWAY	**25.** The system is in INSTALLER MODE or USER SETTINGS
2. Record a message	**14.** ARM HOME	**26.** Sabbath mode
3. PGM on	**15.** DISARM	**27.** Instructs the user to present the proximity tag (at the position of this indication)
4. Volume down	**16.** Dialer to call telephone numbers (for future use)	**28.** AC ON
5. Play a message	**17.** EMERGENCY	**29.** Chime ON / OFF status
6. PGM off	**18.** FIRE ALARM	**30.** System Trouble
7. PowerMaster Mute speaker	**19.** AC failure	**31.** ARM AWAY
8. Chime ON/OFF	**20.** Low battery	**32.** Escape
9. PGM control	**21.** Communication failure: out of range of panel	**33.** Previous
10. Event log / enroll button	**22.** System Trouble	**34.** Info. / OK
11. Instant	**23.** Memory / Alarm in partition or system	**35.** Next
12. Partition selection	**24.** A message is waiting in the control panel	**36.** Discard / abort

D-306919

INSTALLER GUIDE

Contact Visonic for further information:
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Visonic
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