

# KF-234 PG2

## Wireless PowerG 2-Way Keyfob


**Visonic®**

## Installation Instructions

### 1. INTRODUCTION

KF-234 PG2 is a miniature PowerG 4-button (6-function) keyfob, designed for use with the PowerMaster-10.

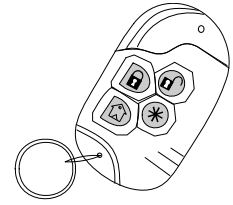
Transmission is initiated by pressing any one of the four recessed pushbuttons. Upon pressing a specific button, the KF-234 PG2 transmits a PowerG message associated with the button that was pressed and identifiable by PowerMaster-10 control panels.

A red LED lights during transmission. When an identified command is received by the PowerMaster-10 control panel, it acknowledges the command. Upon acknowledgement, the green LED lights and a happy beep is heard to indicate successful completion of the command or the red LED lights and a sad beep is heard to indicate that the control panel cannot perform the command.

In addition, a battery report is transmitted with the outgoing message. PowerMaster-10 control panels are designed to identify this report and operate a corresponding output, if required.

Each keyfob is supplied with a small key ring.

Operating power is obtained from an internal 3V Lithium battery.



**Figure 1:**  
External View

### 2. SPECIFICATIONS

**Frequency Band (MHz):** Europe: 433, 868, USA: 915

**Modulation:** GFSK

**Antenna:** Built-in helical antenna.

**Communication Protocol:** PowerG.

**Battery type:** 3V CR-2032 Lithium battery.

**Caution!**

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

**Battery Life Expectancy:** 8 years (for typical use)

**Power Supply:** Type C

**Note:** If transmission is still possible despite the battery condition, the unit will send a low battery signal to the control panel.

**Transmitted Messages:** Arm Away, Arm Home, Arm Latchkey, Disarm, AUX and Panic.

**Operating Temperature:** 0° to 55°C (32° to 131°F).

**Humidity:** Average relative humidity of approximate 75% non-condensing. For 30 days per year relative humidity may vary between 85 % and 95 % non-condensing.

**Dimensions:** 60 x 34.5 x 12.5 mm (2-3/8 x 1-3/8 x 1/2 in.).

**Weight (including battery) :** 25 g (0.9 oz).

**Color:** Black

**Compliance with Standards:**

**Europe:** EN 300220, EN 50131-1 Grade 2, Class II and (EN 50134-2 Class II if used for social alarm), EN 301489, EN 50130-4, EN 60950, EN 50131-6

**USA:** CFR47 Part 15

**Canada:** RSS 210

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

**NOTE:** This equipment 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 a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**Warning!**

Changes or modifications to this equipment not expressly approved by the party responsible for compliance (Visonic Ltd.) could void the user's authority to operate the equipment.

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment.

### 3. ENROLLMENT

Refer to the PowerMaster-10 Installer Guide for the device enrollment procedure.

### 4. MODIFY DEVICE SETTINGS

This section describes how to configure the parameters for home monitoring of people from the PowerMaster-10 control panel.

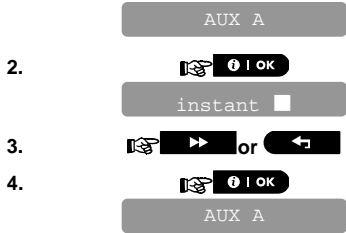
#### To Modify the Keyfob Device Settings

Refer to the PowerMaster-10 Installer Guide and perform the procedure for Adding A Wireless Device (section 4.5.2), or, Modifying a Device (section 4.5.5). Then continue below to modify the device settings.

DEV SETTINGS

1.





Here you select the function of the AUX button on the KF-234 PG2 keyfob.

Select between "instant", "skip exit delay" and "PGM".

When exiting "ZONES / DEVICES" menu the PowerMaster-10 system displays the number of devices that need to be updated, as follows: DEV UPDATING NNN.

For detailed instructions on Adding Devices, Deleting Devices, Replacing Devices and Defining Defaults see the PowerMaster-10 Installer Guide.

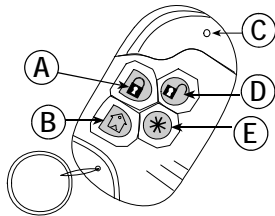
## 5. OPERATION

**Initiate Panic Alarm:** Press ARM AWAY and ARM HOME together for 2 seconds.

**Arming Latchkey:** Press ARM AWAY/HOME twice.

**Arm AWAY/HOME:** Press AWAY or HOME button once.

**Status:** Press '\*' button once.



- A. ARM "AWAY"
- B. ARM "HOME"
- C. LED
- D. DISARM
- E. AUX

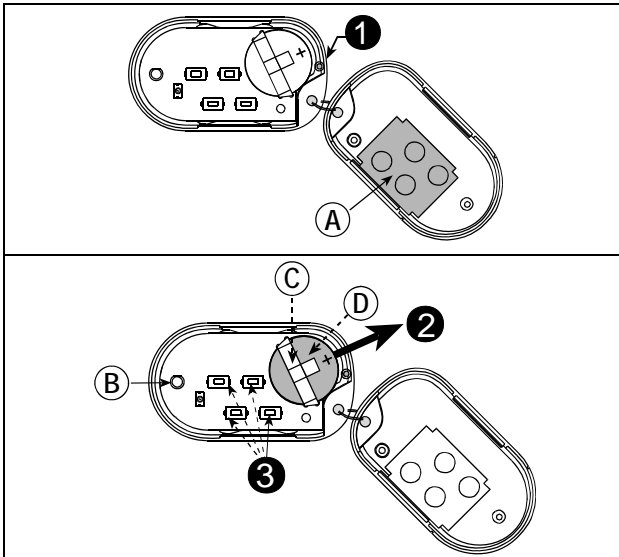
Figure 2: Operation

## 6. MAINTENANCE

### 6.1 Replacing the Battery

A replacement 3V battery, CR-2032, is available from hardware and electrical supply stores. Replace the battery as shown in Figure 3.

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



1. Remove backside screw and open the cover.
2. Using the screwdriver, push out the battery from its holder and install new battery (polarity "+" as shown).
3. Test the unit by momentarily pressing one of the Transmit buttons – the LED should light. Put back the cover and re-attach it with the screw.

- A. Button pad (make sure that it remains in its place).
- B. LED indicator.
- C. Battery holder.
- D. Battery

Figure 3: Battery Replacement

### 6.2 Cleaning

The keyfob may get dirty if touched with greasy fingers. Clean it only with a soft cloth or sponge moistened lightly with a mixture of water and mild detergent, and wipe it dry immediately.

**The use of abrasives of any kind is strictly forbidden. Also never use solvents such as kerosene, acetone or thinner.**

## 7. TESTING A NEW UNIT

Since the KF-234 PG2 is supplied with the battery already installed, the unit is practically ready to be tested.

- A. Stand 3 m (10 ft) away from a target control panel (or wireless control panel) and press the ARM AWAY button (see Fig. 2).

Verify that the red LED lights upon transmission and that the green LED lights upon acknowledgement from the PowerMaster-10.

- B. Make sure that the control panel responds as programmed and as

## 8. MISCELLANEOUS COMMENTS

### 8.1 Product Limitations

Visonic Ltd. wireless systems are very reliable and are tested to high standards. However, due to their low transmitting power and limited range (required by FCC and other regulatory authorities), there are some limitations to be considered:

- A. Control panels may be blocked by radio signals occurring on or near their operating frequencies, regardless of the code selected.
- B. Wireless equipment should be tested regularly to determine whether there are sources of interference and to protect against faults.

## 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 where 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.

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### W.E.E.E. Product Recycling Declaration

For information regarding the recycling of this product you must contact the company from which you originally 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.



# Visonic®

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