RP-610 PG2

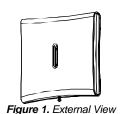
Installation Instructions

Nisonic®

Wireless Repeater for PowerG Communications

1. INTRODUCTION

The RP-610 PG2 is a range extender designed to relay digital data between wireless PowerMaster-10 Devices and a PowerMaster-10 Control Panel. Repeater links are required when the Control Panel is beyond the range of at least some of the devices and is therefore incapable of receiving transmissions directly (see Figure 3).



2. SPECIFICATIONS

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

Modulation: GFSK
Antenna: Built-in antenna

Communication Protocol: PowerG

Power Supply: Type A

AC Power Supply: AC to AC adaptor:

120 VAC, 60 Hz / 9 VAC, 0.35 A min. (in the U.S.A.)

230 VAC, 50 Hz / 9 VAC, 0.35 A min.

Backup Battery: 4.8-Volt 1300 mAh NiMH rechargeable.

Time to charge: 80 % (~ 12 Hrs) Low voltage alarm: ~ 4.8V

Caution!

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

Nominal Current Drain:

Frequency (MHz)	433	868	915
	100 mA	100 mA	100 mA

Battery Backup Duration (with fully charged 1300 mA/h battery): 48 hours.

LED indicator: Green LED lights when AC power on. Operating Temperature: 0°C to 49°C (32°F to 120°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: 161x161x50mm (6-7/16 x 6-7/16 x 1-3/4 in)

Weight: 470g (16.5 oz.)
Compliance with Standards:

Europe: EN 50131-1 Grade 2, Class II, EN 50130-5, EN 50131-

6, EN 301489, EN 50130-4, EN 300 220

USA: (FCC) CFR47 Part 15

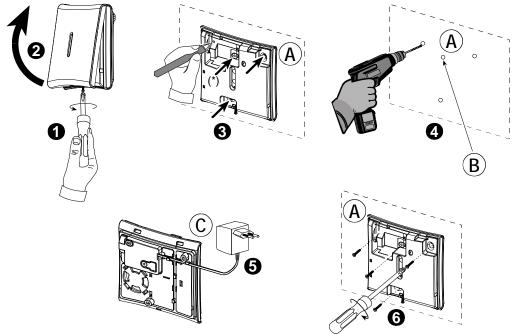
Canada: RSS210

WARNING! To comply with FCC RF exposure compliance requirements, the repeater should be located in 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.

3. INSTALLATION

3.1 Repeater's Location Selection

- A. In a repeater setup, install the repeater where good communication is assured with the target receiver and with the transmitters deployed in the repeater's coverage area.
- B. Mount the repeater as high as possible above the floor and well away from metal chimneys, large metal cabinets, metal doors and reinforced concrete walls, all of which may reduce the communication range.
- **C.** Make sure that the location you have selected is near an electrical outlet.



- A. Mounting surface.
- B. For back tamper screw.
- C. AC to AC adaptor.

Attention! For Europe, the transformer has to be CE compliant and power limited.

Figure 2: Installation

4. ENROLLMENT

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

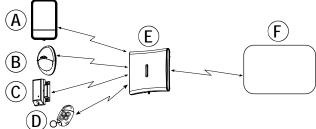
5. CONFIGURATION AND OPERATION

5.1 Service Messages

Five kinds of event codes are automatically included in a service transmission in addition to the repeater's:

 λ AC fail λ Low Battery λ End of life λ Tamper λ Supervision. Upon power failure, recharging stops and the backup battery takes over. It is therefore correct to assume that without power input the battery is gradually weakening and may be reported as "low".

Power / battery restore is reported only in the following test report. **End of life** is reported when battery power is depleted and device is about to shut down. **Tamper restore** is reported immediately upon occurrence. If the **tamper** or **power failure** condition persists long enough, respective alerts will be sent out again with each test report.

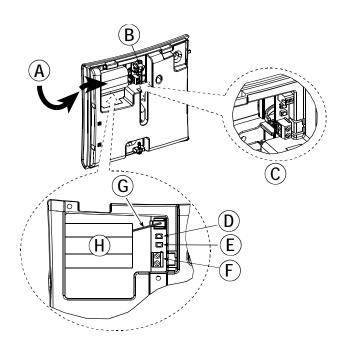


- A. Siren.
- B. Motion detector.
- C. Door or window open/close detector
- D. Keyfob
- E. RP-610 PG2 Repeater
- F. PowerMaster-10 Control Panel

Figure 3: Repeater Configuration

6. MAINTENANCE

Note: Battery replacement should be done by a service man.



- A. Turn & push battery
 B. Battery pack connector
 C. Connect the wires to the terminal block
 D. Self-Test button
- **E.** Enroll button
- F. AC connector terminal block
 G. Battery cable
 H. Battery

Figure 4 - Battery Pack Insertion

7. LOCAL DIAGNOSTICS TEST

Before testing, separate the base from the cover (see Fig. 2).

- A. Press the self-test button once and release it:
 - The red LED and then the green LED will switch ON and then OFF in turn to indicate that the repeater is now fully operational.
- B. After 2 seconds the LED blinks 3 times.

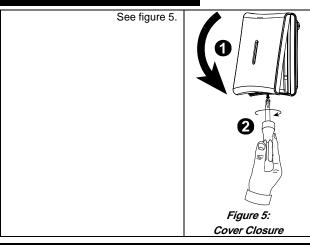
The following table indicates received signal strength indication.

LED response	Reception	
Green LED blinks	Strong	
Orange LED blinks	Good	
Red LED blinks	Poor	
No blinks	No communication	

IMPORTANT! Reliable reception must be assured. Therefore, "poor" signal strength is not acceptable. If you receive a "poor" signal from the device, re-locate it and re-test until a "good" or "strong" signal strength is received.

Note: For detailed Diagnostics Test instructions refer to PowerMaster-10 Installer Guide.

8. COVER CLOSURE



9. NOTES AND WARNINGS

9.1 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. Receivers 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.

9.2 Compliance with Standards

Interference Prevention

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

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

The digital circuitry 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.

This device complies with the essential requirements and provisions of Directive 1999/5/EC of the European Parliament and of the Council of 9 March 1999 on radio and telecommunications terminal 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.

(12) montrs from the date of snipment 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

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.

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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

The Manufacturer is an in defined in liability mitassever arising out in the corruption and/or manufacturing 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 dismanting and/or einstallation 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 rins warranty snail not be modined, varied or extended, and the warranty that another 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 mailtunction 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.



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.



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