

MP-872 PG2

Wireless ceiling PIR presence/security detector

tyco
Installation Instructions

1. Introduction

The MP-872 PG2 is a smart wireless ceiling PIR presence/security detector (selected mode) that creates a 360° coverage area to detect the movement of intruders in indoor areas.

The detector has the following features.

- Presence detection mode - active 15 minutes after installation (power-up).
- Built-in link quality indicators eliminate the need for the installer to physically approach the control panel and reduce installation time.
- Temperature and light measurement and reporting.
- Tamper protection.
- PowerG two-way Frequency Hopping Spread Spectrum FHSS-TDMA technology.
- The Advanced True Motion Recognition™ algorithm (patented) distinguishes between the true motion of an intruder and any other disturbances which may cause false alarms.

NOTE: For UL installations, the detector is for use with UL listed control units only.

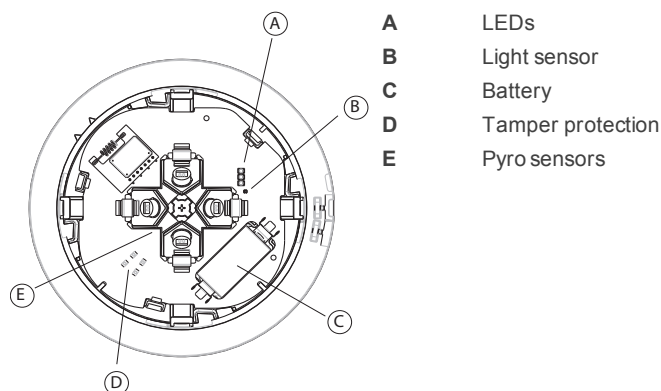


Figure 1. Internal view

2. Installation

2.1. Installation tips

Use the following as a guide for locating a suitable mounting location.

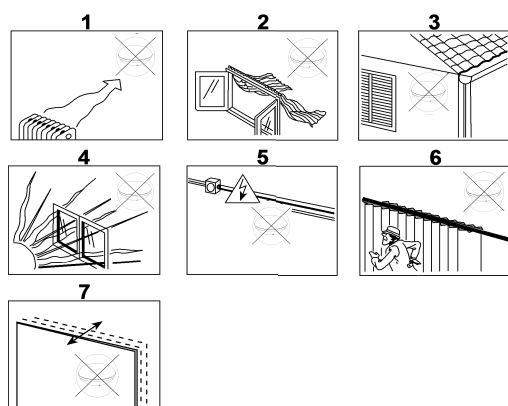


Figure 2. General Guidelines

1. Keep away from heat sources.
2. Do not expose to air drafts.
3. Do not install outdoors.
4. Avoid direct sunshine.
5. Do not install near high voltage electrical lines.
6. Do not install behind partitions.
7. Mount on a solid stable surface.

WARNING! Do not partially or completely obscure the detector's field of view.

WARNING! To comply with FCC and ISED Canada RF exposure compliance requirements, the PIR detector 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.

NOTE: The MP-872 PG2 Wireless ceiling PIR presence/security detector shall be installed and used within an environment that provides the pollution degree max 2 and overvoltages category II in NON HAZARDOUS LOCATIONS. The equipment is designed to be installed only by qualified service persons.

NOTE: MP-872 PG2 shall be installed in accordance with the Standard for Installation and Classification of Residential Burglar Alarm Systems, UL 1641.

2.2. Inserting or replacing the battery

If the battery is already installed, pull the isolation strip that protrudes from the back of the detector.

1. To separate the detector from the mounting bracket, rotate the bracket anticlockwise and pull it from the detector.
2. Insert the battery while observing polarity.
3. Align the bracket tabs with the detector slots and rotate the detector clockwise to verify that it is securely attached.

Figure 3. Removing the bracket

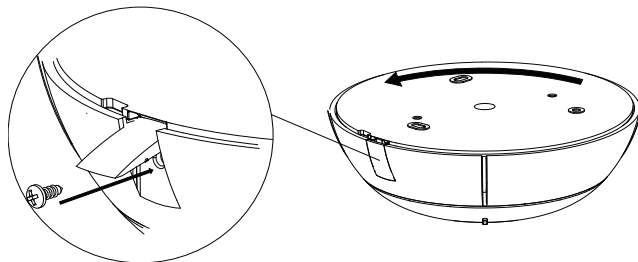


Figure 4. Removing the bracket

NOTE: If a screw is used to secure the detector to the bracket (see Figure 3), open the screw cover, and remove the screw. To separate the detector from the mounting bracket, ensure the screw cover is fully open or fully closed, and rotate the detector anticlockwise. Replace the battery ensuring polarity is observed, replace the detector and secure to the bracket with the screw.

NOTE: It is recommended to wait about 1 minute after battery removal before inserting the new battery.

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

2.3. Enrollment

Refer to the PowerMaster panel's installer guide and follow the procedure under the "02:ZONES/DEVICES" option of the Installer Menu.

NOTE: When enrolling the MP-872 PG2 detector to PowerMaster panels with version 19.4 or lower, the detector will be enrolled as a motion detector, ID 120-xxxx, and labeled Motion Sens in the panel.

To enroll the device enter the Installation menu and do as follows:

1. From the Installation menu, select **02:ZONES/DEVICES** and click **OK**.
2. Select **ADD NEW DEVICES** and click **OK**. Panel displays: <ENROLL NOW or ENTER ID:xxx-xxxx>
3. Pull the enrollment tab or insert the battery to power up the device and begin the auto-enrollment process.

NOTE: You can also enter **ID:XXX-XXXX** (the number of the device that is printed on the label), or press the enroll button, if the device does not automatically enroll.

4. To change the Zone/Device number, click the arrow button or type the zone number and then click **OK**.
5. To configure the location, zone type and chime parameters, select **Z0x.LOCATION**, **Z0x.ZONE TYPE** and **Z0x.SET CHIME** and select desired settings.
6. Select one of the following options.
 - a. Continue to configure the device. See **Configuring the Detector Parameters**.
 - b. Select  and then click **OK** to exit.

2.4. Walk testing / local diagnostic testing

Before permanently mounting any wireless device, temporarily mount the device and perform a walk test. Perform a walk test of the coverage area at least once a week to ensure that the detector is working correctly.

After inserting the battery or closing the bracket, the detector will automatically enter a stability period where the LED flashes RED for 90 seconds. Walk test the coverage area, the LED lights red each time your motion is detected followed by 3 LED blinks. The color of the 3 LED blinks indicate the received signal strength. In walk-test mode, regardless of the LED Selection status, the LED lights upon every motion detection. After 15 minutes the detector automatically enters normal mode.

The following table indicates the received signal strength.

LED Response	Signal Strength
3 green LED blinks	STRONG
3 orange LED blinks	GOOD
3 red LED blinks	POOR
No blinks	No communication

IMPORTANT! Only GOOD or STRONG signal strengths are acceptable. If you receive a POOR signal from the device, re-locate it and re-test until a GOOD or STRONG signal is received.

NOTE: For UL/ULC installations, only STRONG signal levels are acceptable. After installation verify the product functionality in conjunction with the compatible control panels PowerMaster-10 and PowerMaster-30 PG2.

NOTE: For detailed Placement instructions refer to the control panel reference manual.

Walk-test the coverage area by walking across the far end of the coverage pattern in both directions. The red LED lights each time your motion is detected followed by a steady LED signal strength indication.

2.5. Mounting the device

1. Mark and drill two holes in the mounting surface. If you install tamper protection on the detector, mark and drill one hole for the tamper protection and one hole for one of the other available slots (see Figure 4).
2. Fasten the bracket to the mounting surface with the two screws.
3. Align the bracket tabs with the detector slots and rotate the detector clockwise. Verify that it is securely attached (see Figure 5).
4. Fasten the detector to the bracket with the screw (see Figure 6).

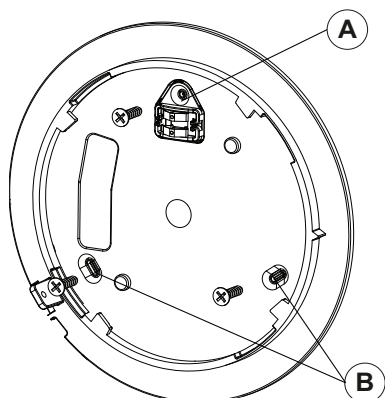


Figure 5. Fastening the bracket

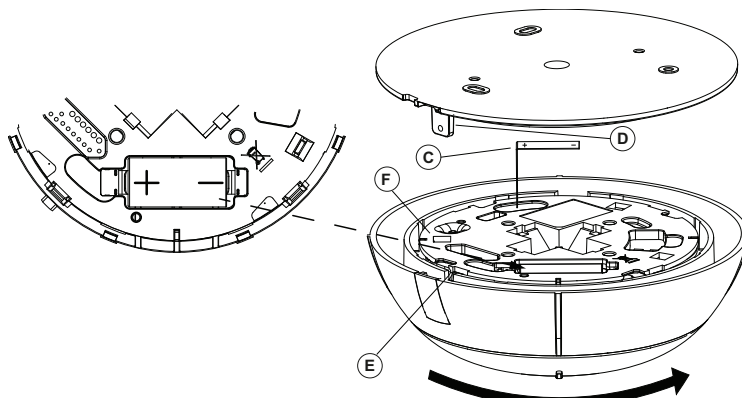


Figure 6. Attaching the detector

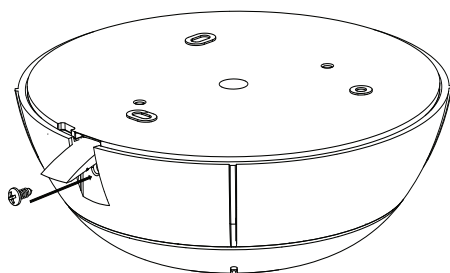


Figure 7. Fastening the detector

- A Tamper protection
- B Bracket screw slots
- C Isolation strip
- D Bracket tabs
- E Detector slots
- F Enroll button

The following table outlines the detection distance in relation to the mounting height.

Height	2 m 6.6 ft	3 m 9.8 ft	4 m 13.1 ft	5 m 16.4 ft	6 m 19.7 ft
Radius detection distance	3.1 m 10.2 ft	3.75 m 12.3 ft	4.5 m 14.8 ft	6.5 m 21.3 ft	10 m 32.8 ft

2.6. LED Operation

LED Indications	Event
Red LED blinks	Stabilization (warm-up 90 seconds)
Red LED on 0.2 seconds	Tamper open/close
Red LED on 2 seconds	Intruder alarm

3. Temperature display

For instructions on displaying the temperature and light of zones on the correct panel as measured by the MP-872 PG2, refer to the PowerMaster Installer Guide, section 6.2 "Conducting a Periodic Test".

4. Configuring the Detector Parameters

Enter the DEVICE SETTINGS menu and follow the configuration instructions for the device as described in the following table.

Option	Configuring Instructions
Alarm LED	Define whether or not the alarm LED indication will be activated. Optional settings: LED ON (default) and LED OFF
Event Counter	Not applicable in this device
DISARM Activity	Define whether or not to set the activity time during disarm. Optional settings: NOT Active (default), YES – no delay, YES + 5s delay, YES + 15s delay, YES + 30s delay, YES + 1m delay, YES + 2m delay, YES + 5m delay, YES + 10m delay, YES + 20m delay and YES + 60m delay.
VERY HOT > 35°C [>95°F]	Define whether or not the control panel will report a "very hot" alert when the temperature rises above 35°C (95°F) for at least 10 minutes. Alert restore will occur when the temperature drops below 34°C (93°F) for the duration of 10 minutes. Optional settings: Disable (default) or Enable

Option	Configuring Instructions
COLD < 19°C [<66°F]*	Define whether or not the control panel will report a "cold" alert when the temperature drops below 19°C (66°F) for at least 10 minutes. Alert restore will occur when the temperature rises above 20°C (68°F) for the duration of 10 minutes. Optional settings: Disable (default) or Enable
FREEZING < 7°C [<45°F]*	Define whether or not the control panel will report a "freezing" alert when the temperature drops below 7°C (45°F) for at least 10 minutes. Alert restore will occur when the temperature rises above 8°C (48°F) for the duration of 10 minutes. Optional settings: Disable (default) or Enable
FREEZER > -10°C [<14°F)*	Define whether or not the control panel will report a "freezer" alert when the temperature rises above -10°C (14°F) for at least 30 minutes. Alert restore will occur when the temperature drops below -11°C (12°F) for the duration of 10 minutes. Optional settings: Disable (default) or Enable
Presence Mode	Define whether or not the presence mode will be activated
Presence Timer Setting	Define whether or not to set the activity time during Presence Mode. Optional settings: 2 min, 5 min, 10 min, 30 min, or Disable. Presence Mode not active in Disable Mode, it works according to DISARM activity

NOTE: The temperature must pass beyond the threshold for the required duration in order to generate an alarm or restore transmission.

NOTE: The user can give access to installer to remotely enable or disable the indication LED.

NOTE: Presence Mode and Presence Timer are not available with PowerMaster Panels with version 19.4 or lower.

5. Specifications

GENERAL

Detector Type

Four pyroelectric sensors operating in a dual separated configuration

OPTICAL

Lens Data

Fresnel type lens.

Number of beams: 120

Max. coverage

Ø20 m/360° at the maximum installation height of 6 m (19.7 ft)

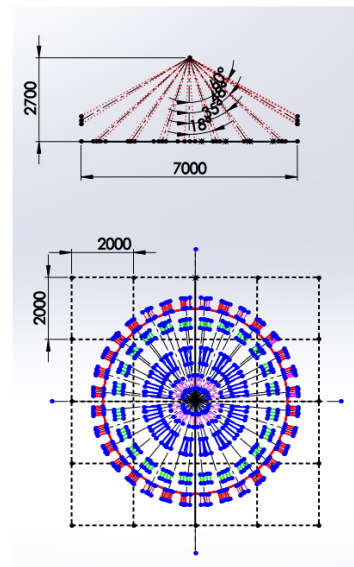
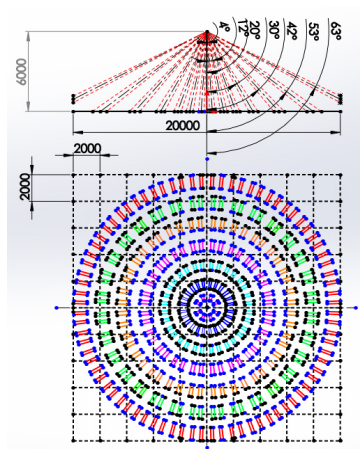


Figure 8. Beam distribution at 6 m (19.7 ft) Figure 9. Beam distribution at 2.7 m (8.86 ft)

ELECTRICAL

Power Supply: Type C

Internal Battery

3V Lithium battery, type CR-123A. For UL installations, use Panasonic and GP only

Nominal Battery Capacity: 1450 mAh

Battery Life (typical use)

Minimum 1 year. For typical use (security mode), 3 years (not verified by UL).

Low Battery Threshold: 2.6 V

NOTE: Inability to connect with wireless network, or wireless link quality no higher than 20% may significantly reduce the expected battery life.

Battery Power Test

Performed immediately upon battery insertion and periodically after every several hours.
The power supply is type C in accordance with EN 50131-6 Documentation – Clause 6.

Current Consumption

30 µA average quiescent, maximum 150 mA (during transmission)

Beam distribution at 2.7 m (8.9 ft)

Beam distribution at 4 m (13.1 ft)

FUNCTIONAL

Alarm Period: 2 seconds

WIRELESS

Frequency

Europe and rest of world: 433-434 MHz, 868-869 MHz USA: 912-919 MHz

NOTE: Only devices in frequency band 915 MHz are UL/ULC listed.

Max Tx Power

10 dBm @ 433MHz, 14 dBm @ 868MHz

Communication Protocol: PowerG

Supervision: Signaling at 256 s intervals

Tamper Alert

Reported when a tamper event occurs and in any subsequent message, until the tamper switch is restored.

MOUNTING

Height: 2 m to 6 m (6.6 ft to 19.7 ft)

Installation Options: Ceiling surface

ENVIRONMENTAL

RF Immunity

20 V/m up to 1000 MHz, 10 V/m up to 2700 MHz

Operating Temperatures

-10 °C to 50 °C (14 °F to 122 °F).

NOTE: UL verified operation range 0 °C to 49 °C only.

Storage Temperatures

-20 °C to 60 °C (-4 °F to 140 °F).

Humidity

Average relative humidity of up to approximately 75% non-condensing. For 30 days per year the relative humidity may vary between 85% and 95% non-condensing.

For UL installations: 5% to 93% with no condensation

PHYSICAL

Size (diameter): 15 cm (5.9 in)

Weight (with battery): 225 g (7.93 oz)

Color: White

COMPATIBLE RECEIVERS

This device can be used with Visonic panels that use PowerG technology.

For UL installations: the detector is for use with UL listed control units only.

NOTE: Only devices operating in band 912-919MHz are UL/ULC listed.

6. Compliance With Standards

	The MP-872 PG2 complies with the following standards: Europe: EN 300220, EN 301489, EN 50130-4, EN 62368-1, EN 50131-2-2 Grade 2, Class II, EN 50130-5, EN 50131-6 Type C. <i>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.</i>
	Hereby, Visonic Ltd. declares that the radio equipment type MP-872 PG2 is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: http://www.visonic.com/download-center. USA: FCC- CFR 47 Part 15 Canada: IC RSS - 247 USA: UL639 Canada: ULC-S306
	This device complies with Part 15 of the FCC Rules and with Industry Canada license-exempt RSS standard(s). 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. 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. To comply with FCC Section 1.1310 for human exposure to radio frequency electromagnetic fields and IC requirements, implement the following instruction: A distance of at least 20cm. between the equipment and all persons should be maintained during the operation of the equipment.

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 situées ou exploitées conjointement avec une autre antenne ou transmetteur.

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.

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

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.

	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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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.

There is absolutely no warranty on software, and all software products are sold as a user license under the terms of the software license agreement included with such Product."

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Conditions to Void Warranty: This warranty applies only to defects in parts and workmanship relating to normal use of the Products. It does not cover:

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- * damage caused by disaster such as fire, flood, wind, earthquake or lightning;
- * damage due to causes beyond the control of the Seller such as excessive voltage, mechanical shock or water damage;
- * damage caused by unauthorized attachment, alterations, modifications or foreign objects being used with or in conjunction with the Products;
- * damage caused by peripherals (unless such peripherals were supplied by the Seller;
- * defects caused by failure to provide a suitable installation environment for the products;
- * damage caused by use of the Products for purposes other than those for which they were designed;
- * damage from improper maintenance;
- * damage arising out of any other abuse, mishandling or improper application of the Products.

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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.

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 re-installation 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.

For sales in Israel only:

The Purchaser shall comply with the provisions of the Israeli Consumer Protection Law – 1981 ("Consumer Protection Law") related regulations, including the Israeli Consumer Protection Regulations (Warranty Sticker, 5772-2012) ("Regulations"), including, without limitation (i) providing its customers with at least the minimum warranty required by the Consumer Protection Law, and (ii) ensuring that a warranty certificate and a warranty sticker (as defined in the Regulations) ("Warranty Sticker") shall be attached to any sold Products and the date of the sale of the Product to the consumer or the end-user shall be added in a readable manner on the Warranty Sticker.

In no event shall the Purchaser's compliance with the Consumer Protection Law and Regulations expand any of the Manufacturer's warranty obligations under this warranty, and the Purchaser shall be responsible for any warranty that it provides with respect to the Products which exceeds or is different from 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.

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Governing Law: This disclaimer of warranties and limited warranty are governed by the domestic laws of Israel.

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.

* In case of a conflict, contradiction or interpretation between the English version of the warranty and other versions, the English version shall prevail.

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