

**MC-312 PG2**

Outdoor PowerG wireless magnetic contact with auxiliary input

**tyco**

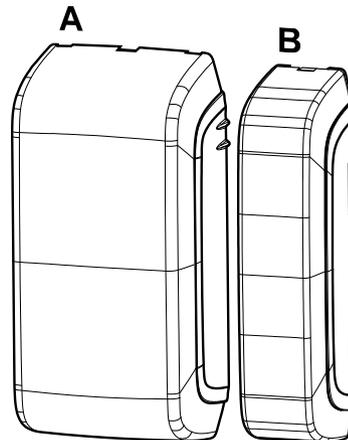
Installation Instructions

**1. MC-312 PG2 Overview**

The MC-312 PG2 is a two-way wireless outdoor PowerG magnetic contact with auxiliary input that is compatible with PowerMaster control panels.

The MC-312 PG2 has the following features:

- Weatherproof and water-resistant outdoor transceiver
- Auto-enrollment process when you pull the tab
- Flat and curved surface installation
- Functions at extreme temperatures (-40°C to 66°C / -40°F to 151°F) and is IP66 certified  
**Note:** UL testing temperature: -35°C to 66°C / -31°F to 151°F
- Battery life of up to 5 years with typical commercial use
- Integrated magnetic sensor
- Maximum magnet gap of 44.5 mm (1.75 in.) on wooden surfaces and 31.8 mm (1.25 in.) on metal surfaces
- Magnetic sensor toggle if the auxiliary input only is required
- Auxiliary hardwired input, programmable as either normally open (NO), normally closed (NC), or end of line (EOL) for use with an additional device
- Separate transmissions from sensor and auxiliary input that trigger the same RF transmitter
- Front and back tamper protection  
**Note:** Back tamper not available in US market
- Automatic periodic supervision at regular intervals
- PowerG two-way frequency hopping spread spectrum time-division multiple access (FHSS-TDMA) technology
- Paintable using non-metallic paint. Suggested paints include: KRYLON Fusion for Plastic, RUST-OLEUM Plastic, DUPLI-COLOR Vinyl & Fabric Coating \*



**Figure 1: MC-312 PG2**

**A:** Device

**B:** Magnet

PowerMaster panel software versions 20 and later support the following features:

- Anti-masking protection (not evaluated by UL)
- Auxiliary hard-wired input, programmable as double end of line (DEOL) for use with an additional device
- Supports temperature level reports according to PowerG panel software version

**2. Enrolling the MC-312 PG2**

To use the device as part of a system, enroll it on the alarm system control panel with the following steps:

1. To add the new device, refer to the host panel installation manual and follow the enrollment procedure.
2. Find the seven digit device identification number on the label that is on the device. The identification number appears in the following format: ID: 107-XXXX.

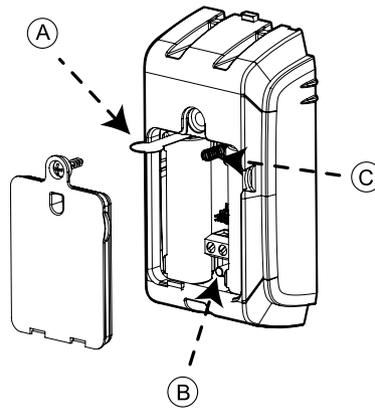
**Note:** The first three digits of the identification number indicate the device type and the remaining four are unique to the device.

**Note:** If the panel does not support ID: 107-XXXX, the device enrolls in fallback operation as D/W Contact with the identification number, ID: 101-XXXX.

3. Remove the pull tab to start the auto-enrollment process. See A in Figure 2.

**Note:** If the device does not automatically enroll, you can either press the enrollment button, press the tamper restore, or enter the device identification number in the panel. See B in Figure 2 for the enrollment button and C in Figure 2 for the tamper restore.

**Note:** If you close the battery cover in enrollment mode a tamper restore event initiates and the panel generates a request to enroll the device.



**Figure 2: Enrollment options**

**A:** Enrollment tab

**B:** Enrollment button

**C:** Tamper switch

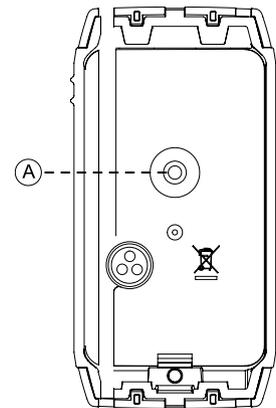
### 3. Installation

**Caution:** Do not replace the battery with an incorrect type as it may cause an explosion. Dispose of the used battery according to the manufacturer's instructions and according to local rules and regulations.

**Attention:** Some MC-312 PG2 models have a back tamper switch behind the device. See Figure 3. Ensure the device is seated firmly within the bracket at all times so that the switch lever presses against a special break-away bracket segment that is loosely connected to the bracket. Ensure the break-away segment of the bracket is fastened securely to the wall (holes B and C in Figure 6). If the detector unit is forcibly removed from the wall, this segment will break away from the bracket, causing the tamper switch to open.

**Notes:**

- The equipment is designed to be installed by qualified service persons only.
- Place the device above the door or window on the fixed frame. Place the magnet on the movable part of the door or window. Do not place the magnet more than 44.5 mm (1.75 in.) from the marked side of the device.
- To monitor outdoor areas, you can mount the MC-312 PG2 on a curved surface, such as a fence pole or similar.
- Once the battery cover is removed, a tamper message transmits to the panel. Subsequent removal of the battery prevents transmission of the **TAMPER RESTORE** alert, leaving the receiver in permanent alert. To avoid this, press the tamper switch when you remove the battery.
- Wait about 1 minute after you remove the battery before you insert new batteries.



**Figure 3: Tamper (A)**

#### 3.1. Local diagnostics test

A local diagnostic test establishes the signal strength of a device in its current position during the installation process.

To perform the mandatory test, complete the following steps:

1. Separate the decorative cover from the device and unscrew the battery cover, as in steps 1 - 3 of *Mounting the MC-312 PG2 on a flat surface*.
2. Press the tamper switch once and release it. See callout C, Figure 2.
3. Open the door or window and verify that detection is indicated by a red LED blink.

After two seconds the LED blinks three times in one of three colors to indicate the signal strength. See Table 1.

**Table 1: LED reception response**

LED response	Reception
Green LED blink	Strong
Yellow LED blink	Good
Red LED blink	Poor
No blink	No communication

**Important:** Reliable reception must be assured. Therefore, poor signal strength is not acceptable. If you receive a poor signal from the detector, re-locate it and re-test until a good or strong signal strength is received. In regions requiring UL-compliant installation, only strong signal strength is permitted.

**Notes:**

- For UL, only strong signal strength is acceptable.
- For detailed diagnostics test instructions, refer to the control panel installation guide.
- After this procedure you can reattach the battery cover.
- The LED light is off in normal conditions.

## 3.2. Mounting the MC-312 PG2

To mount the device on a flat surface, complete the following steps:

1. Insert a flat-head screwdriver into the slot provided and push upward to remove the decorative cover. See Figure 4.
2. Unscrew the lower screw from the device cover. See Figure 5.
3. Separate the device from the bracket. See Figure 6.
4. Mark and drill the required amount of holes in the mounting surface. See Figure 7.  
**Note:** Use both the uppermost and lowermost hole (A and D in Figure 6) in the device bracket for standard mounting. Add both middle holes (B and C in Figure 6) for tamper protection.
5. Screw in the bracket with the screws provided.
6. Reattach the device to the bracket.
7. Mount the magnet base with two supplied screws to an adjacent surface and attach the magnet to the magnet bracket. See Figure 6.  
**Note:** The magnet can be mounted parallel or perpendicular to the device. Ensure the magnet and device sensor markings align, depending on the magnet orientation. See Figure 9 or 10.

### Notes:

- When mounting the device on a curved surface, follow steps 1 to 3 in 3.3 *Mounting the MC-312 PG2* and then insert the straps through the slots in the device and magnet brackets (see Figure 8) and fasten both straps around the curved surface. To avail of the back tamper feature, use both middle holes in the device bracket (B and C in Figure 6) when you drill and screw into the mounting surface.
- The straps are not included with the product.
- Align the device and magnet according to the specifications in 3.3 *Range coverage directions*

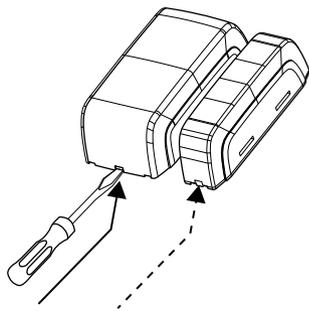


Figure 4: Decorative cover removal

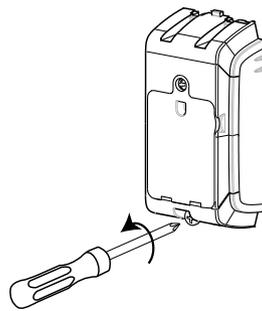


Figure 5: Unscrewing device

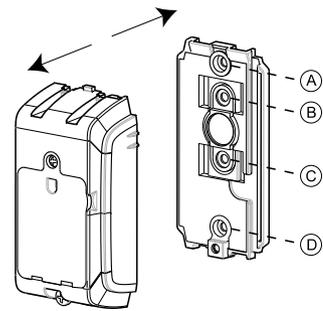


Figure 6: Device and bracket separation

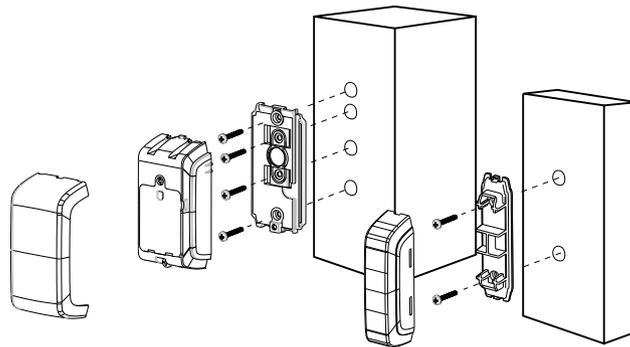


Figure 7: Flat surface mounting

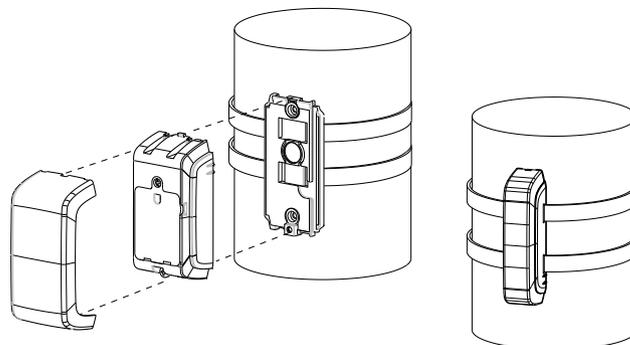


Figure 8: Curved surface mounting

### 3.3. Range coverage directions

Table 2: Range coverage directions

Non-metallic surface		Supports	Metallic surface	
Open	Close	Direction	Open	Close
70 mm (2.75 in.) 71 mm (2.8 in.)*	49 mm (1.92 in.) 52 mm (2 in.)*	X	49 mm (1.9 in.) 48 mm (1.89 in.)*	35 mm (1.38 in.)
40 mm (1.6 in.) 22 mm (0.9 in.)	33 mm (1.3 in.) 17 mm (0.67 in.)	Y (up) Y (down)	32 mm (1.26 in.) 17 mm (0.67 in.)	25 mm (0.98 in.) 8 mm (0.3 in.)
92 mm (3.62 in.) 85 mm (3.35 in.)*	67 mm (2.63 in.) 55 mm (2.17 in.)*	Z	80 mm (3.15 in.) 55 mm (2.17 in.)*	58 mm (2.28 in.) 30 mm (1.2 in.)*

**Notes:**

- \* Evaluated by UL.
- The values stated above may vary by up to 10%. For steel installations, the gaps cannot be less than 3.2 mm.
- For roller shutter assembly, mount the magnet 25 mm to 35 mm (0.98 in. to 1.38 in.) from the device (on the X plane). For all other installations, a minimum gap of 5 mm (0.2 in.) is required.
- When you mount the device and magnet on a slide door, refer to X. When you mount on a roller shutter, refer to Y. When you mount on a normal door, refer to Z.

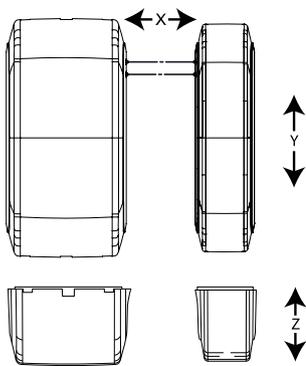


Figure 9: Range coverage directions

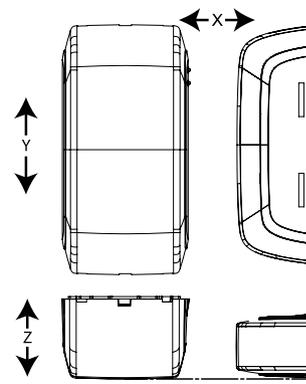


Figure 10: Range coverage directions (with perpendicular magnet)

**Notes:**

- Y (up) refers to the upper half of the Y plane and Y (down) refers to the bottom half of the device on the Y plane. See Figure 9 and 10.
- When mounting the magnet perpendicular to the device, align the magnet with the face of the device. See Z plane illustration in Figure 10.

### 3.4. Configuring the device parameters

Enter the control panel **DEVICE SETTINGS** menu and follow the configuration instructions for the MC-312 PG2 magnetic contact device as described in Table 3.

Table 3: Magnetic device parameters

Option	Configuration instructions
Magnetic sensor	Determine whether to enable or disable the magnetic sensor. Optional settings: <b>enabled</b> (default) or <b>disabled</b> .
Input #1	Define the external input according to the installation requirements. Optional settings: <b>disabled</b> (default), <b>normally open</b> , <b>normally closed</b> , <b>end of line</b> , or <b>double end of line</b> . <b>Note:</b> DEOL support is dependent on panel software version.
Anti-mask	Determine whether to enable or disable the anti-masking protection. Optional settings: <b>disabled</b> (default) or <b>enabled</b> . <b>Note:</b> This feature is dependent on panel software version.

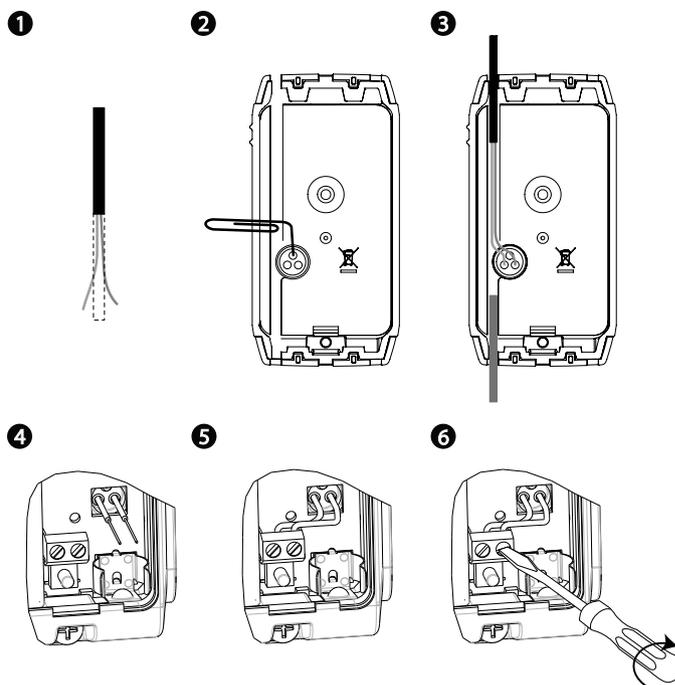
### 3.4.1. Wiring the auxiliary input

**Notes:**

- For UL installations, locate the device that is connected to the initiating circuit in the same room as the transmitter.
- For UL/cUL installations, do not use a wire longer than 1 m/3 ft when using a NO or NC input.
- For installations that require the supervision of input circuitry, only use EOLR (End of Line Resistor) supervision.
- For UL installations, use only UL listed residential burglar alarm accessories in conjunction with the device.
- For ULC auxiliary wiring installations, use only ULC listed products as an input.

To connect this device with another nearby device with an auxiliary input, complete the following steps:

1. Remove the jacket at the end of the cable to expose the wires within.
2. Perforate the silicon gasket at the back of the device with a 0.8 mm (0.03 in.) pin.
3. Pass each wire through an entry hole and out the opposite side.
4. Remove the insulation from the end of each wire.
5. Connect each wire to the relevant terminal, referencing 3.4.2 Auxiliary wiring options.
6. Screw the terminal closed using a flat head screwdriver.



**Figure 11: Auxiliary wiring**

**Notes:**

- An alarm message transmits once the loop is opened or short circuited.
- Use a 22 AWG AUX cable (3.0 mm, 0.12 in. jacket diameter) for this installation.
- Use a cable shorter than 3 m (10 ft) for the AUX connection.
- Seal the auxiliary wiring gasket with RTV Silicone adhesive sealant.

### 3.4.2. Auxiliary wiring options

You can add more devices to the circuit of the MC-312 PG2 for NC, NO, EOL, or DEOL applications. Each application type is explained in Table 4.

**Table 4: Auxiliary wiring options**

NC	Exclusively use series connected NC sensor contacts if the auxiliary input of the MC-312 PG2 is defined as a normally closed (NC) type. An EOL resistor is not required. See Figure 12, B.
NO	Exclusively use parallel connected NO sensor contacts if the auxiliary input of the MC-312 PG2 is defined as a NO type. An EOL resistor is not required. See Figure 12, A.
EOL	For EOL supervision, you can use NC or NO sensor contacts. A 5.6 kΩ EOL resistor must be wired at the far end of the zone loop. See Figure 12, D and E.
DEOL	For DEOL supervision, use NC sensor contacts only. A 5.6 kΩ EOL resistor must be wired at the far end of the zone loop. See Figure 12, C.

**Note:** Figure 12 (C) illustrates a DEOL resistor setup, which is available depending on the panel software version.

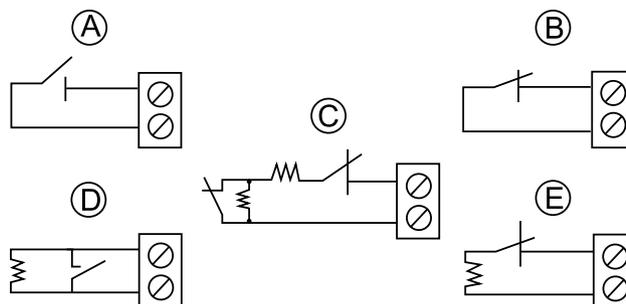
**A:** NO

**B:** NC

**C:** Double EOL: NC switch only ; 5.6 kΩ resistors

**D:** EOL: NO switch ; 5.6 kΩ resistor

**E:** EOL: NC switch ; 5.6 kΩ resistor



**Figure 12: Wiring examples**

### 3.4.3. Calibrating the anti-mask

The anti-mask feature detects attempts of sabotage, such as an obstruction of the sensor. To enable this feature on the MC-312 PG2, complete the following steps of the anti-mask learning process.

#### Notes:

- This feature is dependent on panel software version 20 and later.
- Begin the anti-mask calibration process when the device and magnet are in the final installation position. This must be the shortest distance between the magnet and the device.
- During the anti-mask calibration process, align the magnet with the device decorative cover. See Figure 9 for a parallel magnet installation. See Figure 10 for a perpendicular magnet installation.

**Pre-requisite:** To receive an alert when something interferes with magnet, set the anti-mask configuration to **enable** in the control panel enrollment process.

**Pre-requisite:** Complete the anti-mask learning process after the enrollment process only (see 2. *Enrolling the MC-312 PG2*) and with the device and magnet in the final installation position.

1. Position the device and magnet pointers to face each other as shown in 3.3 *Range coverage directions*.
2. Ensure the device and magnet are placed no more than 5 mm (0.2 in.) apart on the Z plane (see 3.3 *Range coverage directions*).

**Note:** During the anti-mask learning process the sensor and the magnet must be stable for 10 seconds.

3. Press and hold the enroll button for 6-8 seconds to start the anti-mask learning process.

**Note:** Do not release the enrollment button while the yellow LED is lit. Release the button after the green LED lights at 6 seconds and before 8 seconds. If successful, the green LED flashes three times. If unsuccessful, the red LED flashes three times.

**Note:** If the door is open while the enroll button is pressed, the anti-mask learning process is ignored.

## 4. Miscellaneous comments

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

- A. Receivers may be blocked by radio signals occurring on or near their operating frequencies, regardless of the digital code used.
- B. A receiver responds only to one transmitted signal at a time.
- C. Wireless devices should be tested regularly to determine whether there are sources of interference and to protect against faults.

\*All trademarks are properties of their respective owners.

## 5. Specifications

<b>Frequency Band (MHz)</b>	<b>Europe and rest of world:</b> 433-434 MHz, 868-869 MHz <b>USA:</b> 912-919 MHz 10 dBm (10 mW) @ 433 MHz
<b>Maximum Tx Power</b>	14 dBm (25 mW) @ 868 MHz 15 dBm (30 mW) @ 915 MHz
<b>Alarm input Supervision</b>	One internal and one auxiliary Signaling at 4-minute intervals
<b>Tamper alert</b>	Report when a tamper event occurs
<b>Communication protocol</b>	PowerG
<b>Power supply</b>	Type C
<b>Battery type</b>	2 x AA Ultimate Lithium Energizer battery only
<b>Battery life expectancy</b>	Up to 5 years with typical commercial use (not tested by UL)
<b>Low battery threshold</b>	3.0 V
<b>Battery supervision</b>	Automatic transmission of battery condition data as part of the periodic status report and immediately upon low battery detection.
<b>Operating Temperature</b>	-40°C (-40°F) to 66°C (151°F) <b>Note:</b> UL testing temperature: -35°C to 66°C (-31°F to 151°F). Average relative humidity of approximately 75% non-condensing. For 30 days per year relative humidity may vary between 85% and 95% non-condensing.
<b>Relative Humidity (RH)</b>	<b>Note:</b> UL installation relative humidity: 93%.
<b>Dimensions (LxWxD)</b>	105 mm x 52 mm x 35 mm (4.1 in. x 2 in. x 1.4 in.)
<b>Device weight (including battery)</b>	154 g (5.4 oz)
<b>Color</b>	Dark gray

## 6. Compliance with standards

	<p><b>The MC-312 PG2 complies with the following standards:</b> <b>Europe</b> EN 301489, EN 50130-4, EN 300 220, EN 62368-1, EN 60950-22, EN 50130-5, EN 50131-5-3, EN 50131-6 Type C, EN 50131-2-6 Grade 2 Class IV, IP66.</p>
	<p>Hereby, Visonic Ltd. declares that the radio equipment type MC-312 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: <a href="http://www.visonic.com/download-center">http://www.visonic.com/download-center</a>.</p>
	<p><b>EN 50131-1 Security Grade:</b> According to EN 50131-1 this equipment can be applied in installed systems up to and including Security Grade 2. <b>EN 50131-1 Environmental Class:</b> Class IV, IP66</p>
	<p>Certified by Applica Test &amp; Certification AS in accordance with EN 50131-2-6, EN 50131-5-3, EN 50131-6, EN 50130-4, EN 50130-5. Security Grade 2 and environmental CLASS IV.</p>
	<p><b>UK:</b> The MC-312 PG2 is suitable for use in systems installed to conform to PD6662 at Grade 2 and environmental CLASS IV and BS8243 <b>USA:</b> FCC -CFR 47 part 15, UL- UL634, UL 1023/UL 1610 <b>Canada:</b> IC-RSS-247, ULC- ORD-C634, ULC S304</p>
	<p><b>Note:</b> Only devices operating at 912-919 MHz are tested and listed by UL/ULC</p>

**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.

This device complies with Part 15 of the FCC Rules and with ISSED 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'ISED 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 and IC RF exposure compliance requirements, the 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 situées ou exploitées conjointement avec une autre antenne ou transmetteur.

## 7. Special comments

Even the most sophisticated detectors can sometimes be defeated or may fail to warn due to the following reasons:

- DC power failure or improper connection
- Malicious masking of the lens
- Tampering with the optical system
- Decreased sensitivity in ambient temperatures close to that of the human body
- Unexpected failure of a component part

The above list includes the most common reasons for failure to detect intrusion, but is by no means comprehensive. To ensure proper performance, check the detector and the entire alarm system weekly.

An alarm system is not a substitute for insurance. Home and property owners or renters should be prudent enough to continue insuring their lives and property, even though they are protected by an alarm system.

**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.

**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.

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.

**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:

- \* damage incurred in shipping or handling;
- \* 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.

**Items Not Covered by Warranty:** In addition to the items which void the Warranty, the following items shall not be covered by Warranty: (i) freight cost to the repair centre; (ii) customs fees, taxes, or VAT that may be due; (iii) Products which are not identified with the Seller's product label and lot number or serial number; (iv) Products disassembled or repaired in such a manner as to adversely affect performance or prevent adequate inspection or testing to verify any warranty claim. Access cards or tags returned for replacement under warranty will be credited or replaced at the Seller's option.

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 INVOLVED, WHICH SHALL BE FIXED AS LIQUIDATED DAMAGES AND NOT AS A PENALTY, AND SHALL BE THE COMPLETE AND EXCLUSIVE REMEDY AGAINST THE MANUFACTURER. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THESE LIMITATIONS MAY NOT APPLY UNDER CERTAIN CIRCUMSTANCES.

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 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.

**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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EMAIL: [info@visonic.com](mailto:info@visonic.com)

INTERNET: [www.visonic.com](http://www.visonic.com)

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