

About PGPx303

The PGPx303 is a thin, ultra-long-life PowerG magnetic contact device that is compatible with Johnson Controls' PowerG control panels.

The PGPx303 includes a built-in reed switch that opens when the magnet is removed from the contact. The device has the following features:

- Dealer lock down
- Two-factor authentication
- Two-way PowerG communication with the control panel
- Front cover and back cover tamper detection
- Signal strength LED indication during installation
- Periodic supervision message is transmitted automatically to the control panel at regular interval
- PowerG two-way frequency hopping spread spectrum time-division multiple access (FHSS-TDMA) technology
- Low battery indication
- Battery reporting
- Remote firmware upgrade

Installation guidelines

The reference to PGPx303 throughout this manual includes the model PGP9303 and PGP8303.

⚠ CAUTION: Only qualified personnel may install this equipment. Place this device in non-hazardous indoor locations only.

➤ Important: Check the device and the entire alarm system weekly to ensure optimal performance.

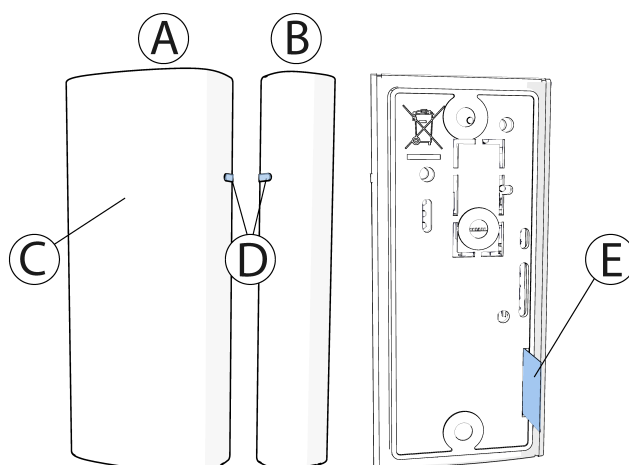
① Note: To comply with FCC and ISED Canada RF exposure compliance requirements, locate the device at a distance of at least 20 cm from all persons during normal operation.

Do not co-locate the antennas used for this product, or operate them in conjunction with any other antenna or transmitter.

Install the UL/ULC listed model PGP9303 in accordance with the Standard for Installation and Classification of Residential Burglar Alarm Systems, UL 1641 and ULC-S302



Figure 1: PGPx303



Callout	Description
A	Device
B	Magnet
C	LED
D	Positioning marks
E	Battery pull-tab

For more information refer to section [About PGPx303](#).

Enrolling the device

The following steps are relevant for IQ panels. For other panels, refer to the control panel installation manual for the complete set of enrollment instructions and testing procedures.

1. From the **Installation** menu, select **Devices > Security Sensors > Auto Learn Sensor** to add a new device.
2. Remove the battery pull-tab to power on the device and begin the auto-enrollment process. If the battery pull-tab is not available or if the device does not automatically enroll, open the device cover to trigger the enrollment.
3. If requested, enter the PIN code printed on the device label.
4. To manually enroll the device:
 - a. Scan the QR Code on the device box, using the IQ4 camera or IQ installer if available, or see step b.
 - b. Manually enter the device ID, printed on the product label, in the format 103-XXXX.

Note: If the device has been powered up for more than 2 hours it will be identified by the system only after the device has been reset.

The PGPx303 is enrolled with device ID 103-XXXX. In fall back mode it enrolls as PGx303 with device ID 109-XXXX.

5. Select the desired zone.
6. Configure any device parameters that are required.
7. Mount and test the device. See [Local diagnostics test](#) for information on testing the device.

Configuring the device parameters

1. Enter the **DEVICE SETTINGS** menu and select the required configuration as described in the following table.

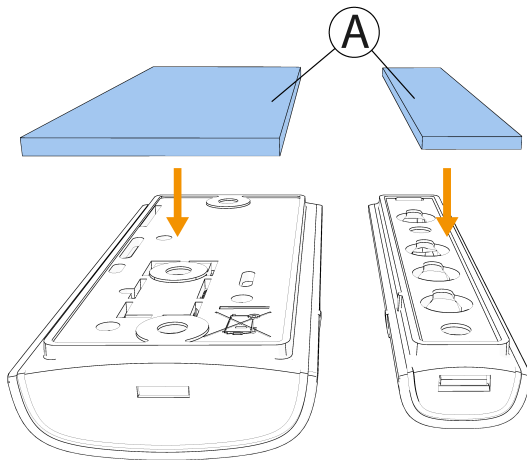
Table 1: Configuration options

Option	Action
Activation LED	Define whether the alarm LED indication will be activated. Optional settings: Enable (default) and Disable .
Chime function	Set the chime function. Optional settings: Disabled , Chime on Openings , Chime on Closings , and Chime on Opening and Closing .

Mounting the device using tape

1. Peel the release liners off the two strips of double-sided adhesive tape and attach the tape to the back of the device and the magnet. See the following figure.

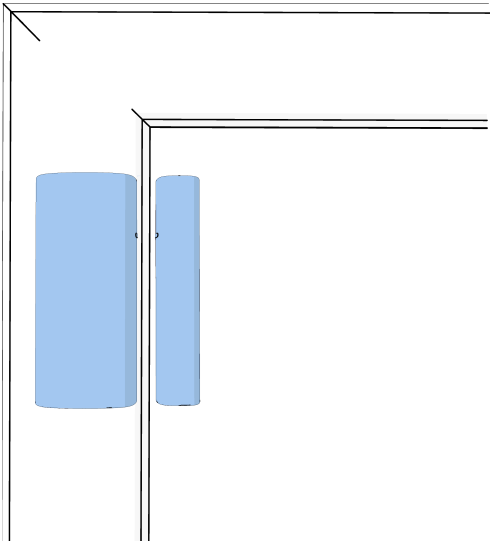
Figure 2: Double-sided adhesive tape placement on the device and magnet



Callout	Description
A	Double-sided adhesive tape

2. Place the device on the frame of a window or door and place the magnet on the moving surface of the window or door itself, directed according to the positioning marks. See the following figure.

Figure 3: Device and magnet position on door and door frame

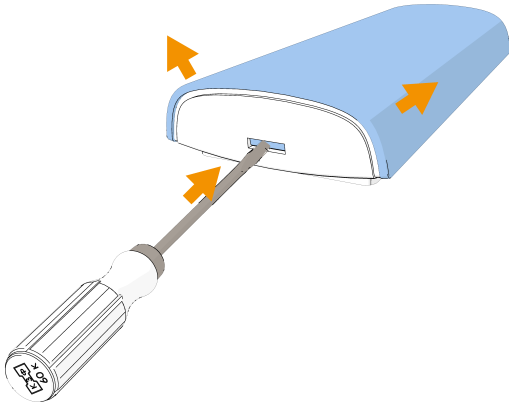


- ① **Note:** Mounting using adhesive tape is permitted only for UL/ULC residential burglary installations. Use only the adhesive tape that was provided with the device.

Mounting the device using screws

- ① **Note:** Mounting using screws is required for UL/ULC commercial burglary type installations. Wall tamper (break-away segment) shall also be enabled.
1. To open the device cover, use a 4 mm flat screwdriver to depress the plastic ledge at the end of the device.

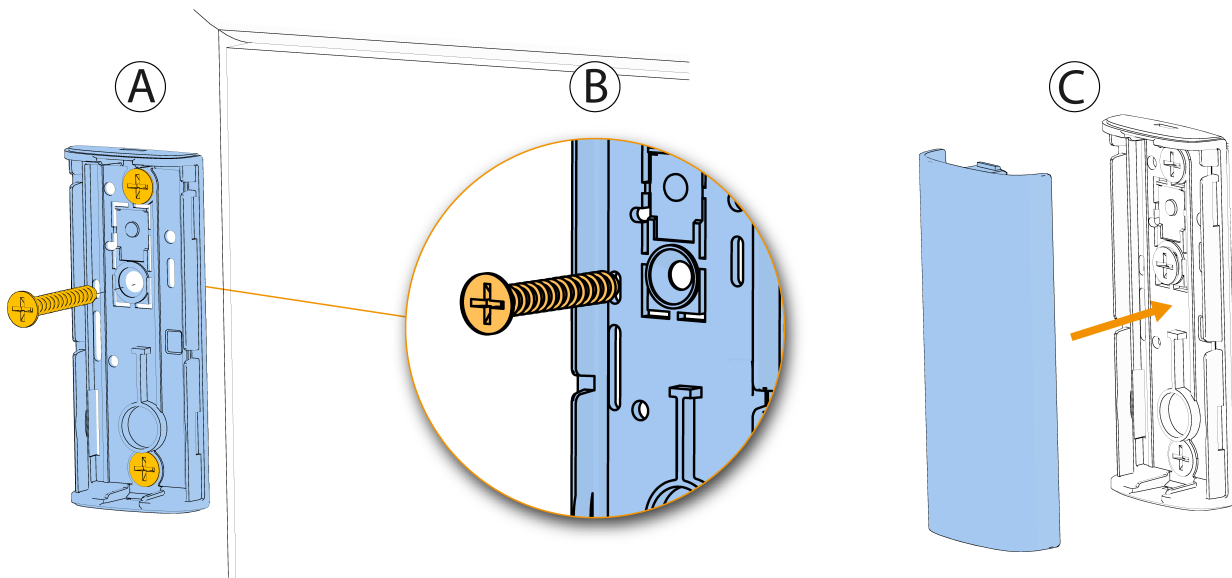
Figure 4: Device cover removal



2. Screw the device base on to the door or window frame. See [Figure 5 A](#).

① **Note:** Make sure to fasten the break-away segment to the frame. If the device is forcibly removed from the wall, this segment will break away from the base, causing the tamper switch to open. See [Figure 5 B](#).
3. Clip the cover onto the device base. See [Figure 5 C](#).

Figure 5: Device screw installation

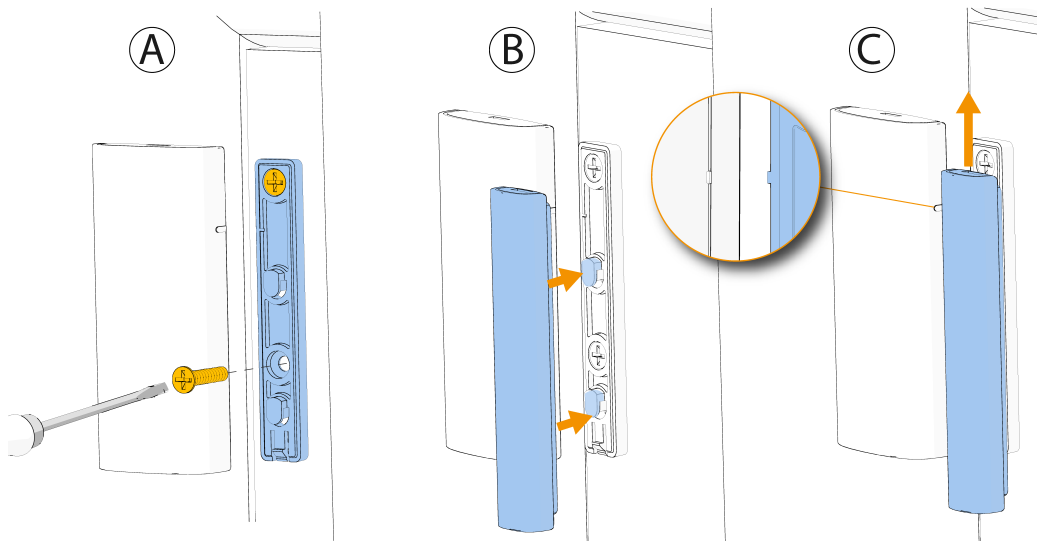


- ① **Note:** Do not use an electric screwdriver.

Callout	Description
A	Screwing device base
B	Break-away segment
C	Closing the device cover

4. Using a 3 mm or 7 mm bracket only, align the magnet bracket to the device according to the positioning marks. See [Figure 6 C](#).
5. Screw the magnet bracket onto the door, or window frame. See [Figure 6 A](#).
6. Attach the magnet to the bracket. See [Figure 6 B](#)
7. Slide the magnet up along the bracket to secure it in place. See [Figure 6 C](#).

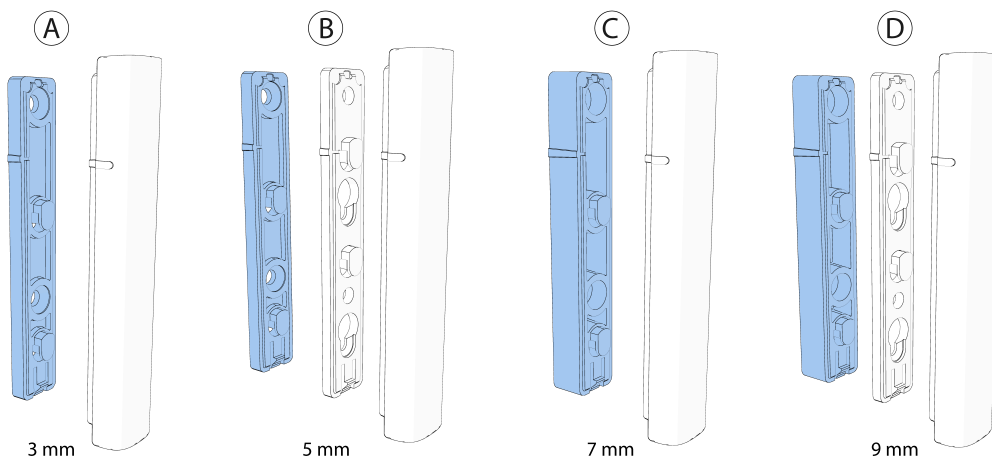
Figure 6: Installing the magnet



Note: Do not use an electric screwdriver.

8. **Optional:** You can add a 2 mm spacer to the magnet. Clip the spacer onto the bracket in the required combination.

Figure 7: Spacer mounting combinations



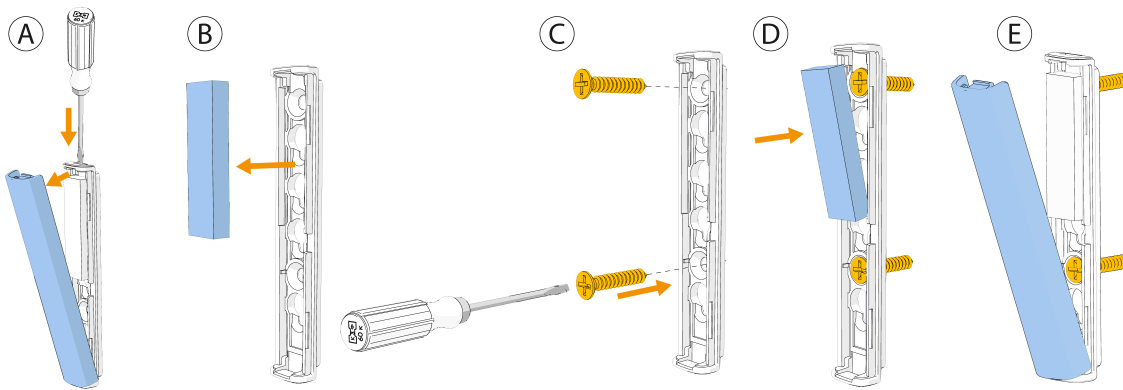
Callout	Description
A	3 mm bracket
B	3 mm bracket and 2 mm spacer
C	7 mm bracket
D	7 mm bracket and 2 mm spacer

Mounting the magnet base using screws

① **Note:** For VdS installation, use the following procedure to mount the magnet.

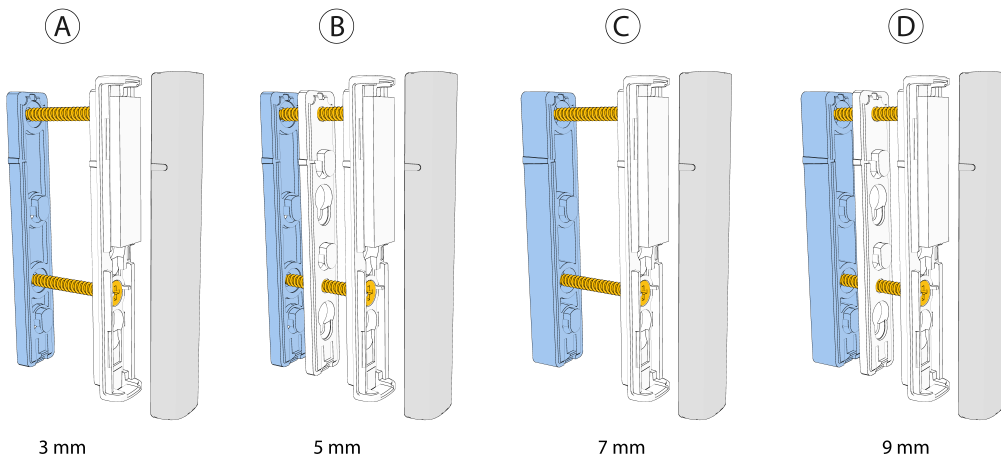
1. To open the magnet cover, use a screwdriver to depress the plastic ledge at both sides of the magnet. See [Figure 8 A](#).
2. Remove the magnet. See [Figure 8 B](#).
3. Screw the magnet base onto the door or window frame. See [Figure 8 C](#).

Figure 8: Mounting the magnet base



① **Note:** Do not use an electric screwdriver.

Figure 9: Spacer mounting combinations



Callout	Description
A	3 mm bracket
B	3 mm bracket and 2 mm spacer
C	7 mm bracket
D	7 mm bracket and 2 mm spacer

- Reinsert the magnet. See [Figure 8 D](#).
- Alternatively, screw the magnet base through the spacer and required bracket, and to the door or window frame.
- Close the magnet cover. See [Figure 8 E](#).

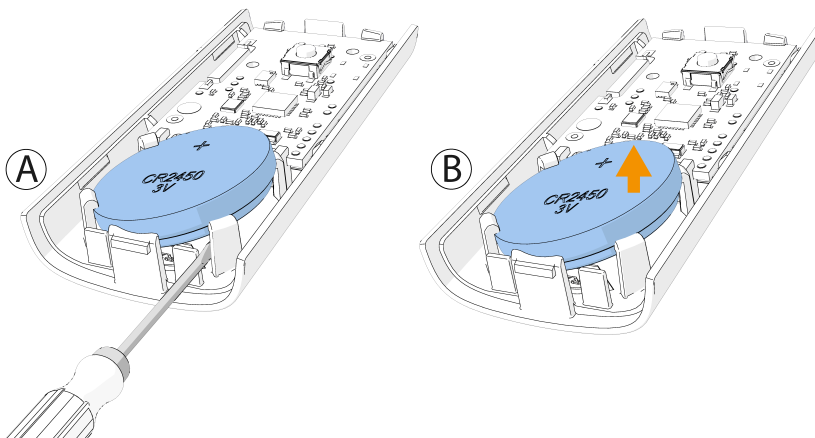
Replacing the battery

- ⚠ CAUTION:** Do not disassemble. Replace batteries only.
- ⚠ 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.
- ⚠ WARNING:** This product contains a coin battery. If it is swallowed, it can cause severe internal burns in just 2 hours and can lead to death. Keep new and used batteries away from children. If the battery compartment does not close securely, stop using the product, and keep it away from children. Seek immediate medical attention if you think batteries might have been swallowed or placed inside any part of the body.

- Remove the device cover. See [figure 6 Figure 4](#).
- Wedge a flat screwdriver under the battery. See [Figure 10 A](#).
- Twist the screwdriver using leverage to remove the battery.
- Insert the new battery at an angle while observing battery polarity.

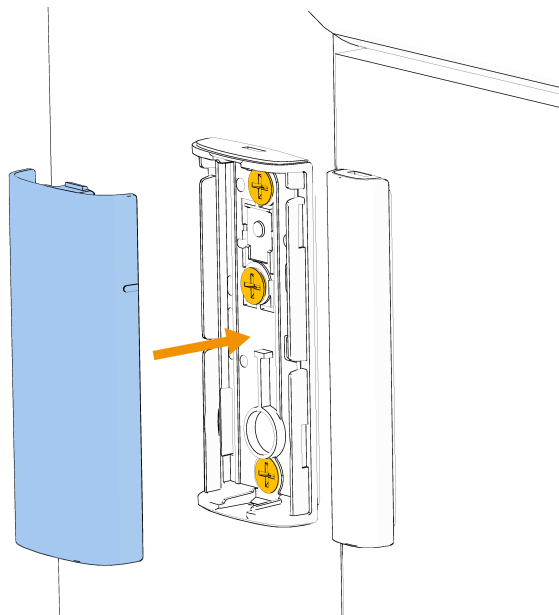
ⓘ Note: When you insert the battery, the (+) symbol should be visible. See [Figure 10 B](#).

Figure 10: Battery removal and insertion



- Press down on the battery until it fits into place.
- Close the device cover. See the following figure.

ⓘ Note: After restoring a low battery, the system may take up to 5 minutes to clear the trouble.

Figure 11: Closing the device cover

Directional magnet distances for event triggers

The following figure and table display the directional magnet distances that trigger open or close events.

Figure 12: Range coverage directions

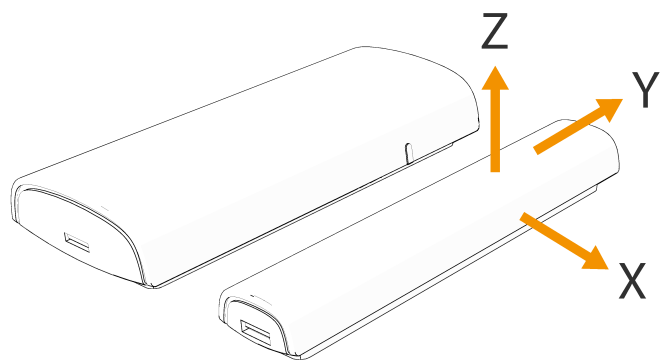


Table 2: Directional magnet distances for event triggers

Non-metallic surface		Supports	Metallic surface	
Opening	Closing	Direction	Opening	Closing
27 mm (1.06 in.)	23 mm (0.91 in.)	X	12 mm (0.47 in.)	10 mm (0.39 in.)
16 mm (0.63 in.)	14 mm (0.55 in.)	Y	15 mm (0.59 in.)	12 mm (0.47 in.)
27 mm (1.06 in.)	22 mm (0.87 in.)	Z	26 mm (1.02 in.)	22 mm (0.87 in.)

Local diagnostics test

After power-up or closing the cover, the device automatically enters Test Mode for 15 minutes. To manually enter the devices into Test Mode refer to the Control Panel Installer Guide.

1. Before you start the test, remove the device cover from the base. See figure 6 [Figure 4](#).
2. Close the cover to return the tamper switch to its normal position.
3. Momentarily open the door or window and verify the red LED blinks, indicating detection. After 2 seconds the transmission LED blinks three times.

The following table displays the received signal strength indication.

Table 3: Signal strength indication

LED response	Reception
Green LED blinks	Strong
Yellow 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, relocate it and re-test until a strong signal strength is received.
- ❗ **Note:** It is recommended to have a strong signal strength and you must verify the signal strength using the control panel's diagnostic test. For detailed Diagnostics Test instructions, refer to the control panel installer guide.
- ❗ **Note:** Note: For UL/ULC installations, only strong signal levels are acceptable.
- ❗ **Note:** After installation, verify the product functionality in conjunction with the compatible receivers.

Specifications

Table 4: Specifications

Frequency Band	868 to 869 MHz , 912 to 919 MHz
Maximum Tx Power	+14 dBm @ 868 MHz
Modulation	GFSK
Communication Protocol	PowerG
Power Supply	Type C
Battery Type	3 V Lithium CR2450 Panasonic, Duracell, or GP battery only
Battery Life	6 years with typical use at room temperature 25°C (77°F) ① Note: Not evaluated by UL/ULC.
Low Battery Threshold	2 V at room temperature 25°C (77°F)
Nominal Operating Voltage	3 V
Current Consumption	Maximum current: 50 mA Quiescent current: 5.5 uA
Operating Temperature	-10°C (14°F) to 55°C (131°F) UL verified range: 0°C (32°F) to 49°C (120°F) only
Storage Temperature	-20°C (-4°F) to 70°C (158°F)
Relative Humidity	Up to 95% non-condensing
Dimensions (LxWxD)	68 mm x 31 mm x 12 mm (2.7 in. x 1.2 in. x 0.5 in.)
Weight (including battery)	20 g (0.71 oz)
Color	White

Compliance with standards

PGPx303 complies with the following standards:

PGP9303	FCC (912 to 919 MHz): 47CFR part 15 ISED (912 to 919MHz): RSS-247 UL/ULC: UL 634, ULC C634
PGP8303	EN 300220, EN 301489, EN 50130-4, EN 50130-5, EN 61000-6-3, EN 62368-1, EN 50131-1, EN 50131-5-3, EN 50131-2-6 Grade 2, Class II and EN 50131-6 Type C UK: is suitable for use in systems installed to conform to PD6662 at Grade 2 and environmental class II, DD243 and BS8243

PGP8303 is certified by Applica Test & 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 II.

Simplified EU declaration of conformity

Hereby, Tyco Safety Products Canada Ltd. Declares that the radio equipment type PGP8303 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://dsc.com/pdf/2208001>

FCC and ISED Canada Compliance Statement

This device complies with FCC Rules Part 15 and with ISED license-exempt RSS standard(s). 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.

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 situés ou exploités conjointement avec une autre antenne ou transmetteur.

❶ **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 equipment not expressly approved by the party responsible for compliance (DSC.) could void the user's authority to operate the equipment.



UL/ULC notes

The PGP9303 has been listed by UL/ULC for commercial and residential burglary applications in accordance with the requirements in the Standards UL 634 and ULC/ORD-C634 for contacts and switches. For UL/ ULC installations use this device only in conjunction with compatible DSC wireless receivers: HSM2HOST, HS2LCDRF(P)9, HS2ICNRF(P) 9, HS2LCDRFPRO9, PG9920, and Qolsys IQPanel2, IQHub, IQPanel4, PGPHOSTx, and IQ Pro, IQ4 Hub, and IQ4 NS. After installation, verify the product functionality in conjunction with the compatible receiver used.

Safety Instructions

Read the safety information before you install the equipment.

The detector shall be installed and used within an environment that provides the pollution degree max 2 and over voltages category II in non-hazardous locations, indoor only. The equipment is designed to be installed by SERVICE PERSONS only; (SERVICE PERSON is defined as a person having the appropriate technical training and experience necessary to be aware of hazards to which that person may be exposed in performing a task and of measures to minimize the risks to that person or other persons).

The PGPx303 is powered by a CR2450 GP, Panasonic, or Duracell battery.

⚠ WARNING: This product contains a coin battery. If it is swallowed, it can cause severe internal burns in just 2 hours and can lead to death. Keep new and used batteries away from children. If the battery compartment does not close securely, stop using the product, and keep it away from children. Seek immediate medical attention if you think batteries might have been swallowed or placed inside any part of the body.

⚠ WARNING

INGESTION HAZARD

This product contains a button cell or coin battery. DEATH or serious injury can occur if ingested. A swallowed button cell or coin battery can cause Internal Chemical Burns in as little as 2 hours. KEEP new and used batteries OUT OF REACH of CHILDREN. Seek immediate medical attention if a battery is suspected to be swallowed or inserted inside any part of the body.



WEEE 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 2012/19/EU Waste Electrical and Electronic Equipment.

Limited Warranty

Digital Security Controls ("DSC"), a division of Tyco Safety Products Canada Ltd, a part of the Johnson Controls group of companies ("JCI"), warrants that for a period of 12 months from the date of purchase, the product shall be free of defects in materials and workmanship under normal use and that in fulfillment of any breach of such warranty, JCI shall, at its option, repair or replace the defective equipment upon return of the equipment to its repair depot. This warranty applies only to defects in parts and workmanship and not to damage incurred in shipping or handling, or damage due to causes beyond the control of JCI such as lightning, excessive voltage, mechanical shock, water damage, or damage arising out of abuse, alteration or improper application of the equipment.

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Warning: JCI recommends that the entire system be completely tested on a regular basis. However, despite frequent testing, and due to, but not limited to, criminal tampering or electrical disruption, it is possible for this product to fail to perform as expected.

Important Information: Changes or modifications not expressly approved by JCI could void the user's authority to operate this equipment.

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WARNING: DSC recommends that the entire system be completely tested on a regular basis. However, despite frequent testing, and due to, but not limited to, criminal tampering or electrical disruption, it is possible for this SOFTWARE PRODUCT to fail to perform as expected.

Website: www.dsc.com

Tech. support: 1-800- 387-3630