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Johson Control PGP-IOx Two-Way Wireless Transceiver Installation Guide 📄

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Johson Control PGP-IOx Two-Way Wireless Transceiver

Product Information

Specifications

- **Model:** PGP-IOx
- **Wireless** Transceiver
- **Frequency Band:** 868MHz, 912-919MHz
- **Certifications:** EN 300220, EN 301489, EN 50130-4, EN 50130-5, EN 61000-6-3, EN 62368-1, EN 50131-1, EN 50131-5-3 Grade 2, Class II, EN 50131-6 Type C
- FCC/IC/UL/ULC listed

Product Usage Instructions

Enrolling the Device

1. Access the panel menu and navigate to Settings > Advanced Settings > Installation > Devices > Security Sensors
2. Ensure the IQ panel software version is at least 4.6.0

3. Follow the on-screen instructions to enrol the device with the appropriate device ID

4. Configure the desired zone and any necessary parameters

5. Mount and test the device using the Local diagnostics test

Configuring Device Parameters

1. Access the DEVICE SETTINGS menu on the IQ panel

2. **Choose from the following configuration options:**
   - **Alarm LED:** Define activation of alarm LED (options: LED ON, LED OFF)
   - **Reed Switch:** Enable or disable internal reed switch (options: Enabled, Disabled)
   - **Inputs (two to four):** Define auxiliary hard-wired input (options: Disabled, End Of Line, Double end of line, Normally Open, Normally Closed)

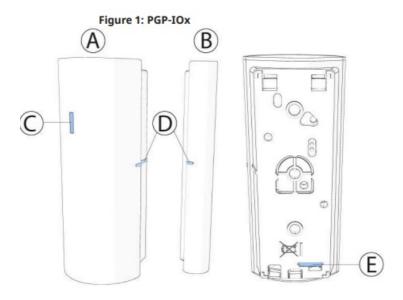## Specifications

Installation guidelines

The reference to PGP-IOx throughout this manual includes the models PGP-IO8, PGP-IO9, and PGPIO9MC.

Frequency band	Product and certification
868MHz	**Europe (868 Mhz):** EN 300220, EN 301489, EN 50130-4, EN 50130-5, EN 61000-6-3, EN 62368-1, EN 50131-1, EN 50131-5-3 Grade 2, Class II and EN 50131-6 Type C **UK (868 MHz):** is suitable for use in systems installed to conform to PD6662 at Grade 2 and environmental class II, DD243 and BS8243

912-919MHz	FCC/IC/UL/ULC listed PGP-IO9/PGP-IO9 MC

- **CAUTION:** Risk of explosion if battery is replaced with an incorrect type. Dispose of the used battery according to the manufacturer's instructions
- For more information, refer tothe section About PGP-IOx.
- **Important:** Check the device and the entire alarm system weekly to ensure optimal performance.
- **Note:** Do not co-locate the antennas used for this product or operate them in conjunction with any other antenna or transmitter.
- 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.
- Install the UL/ULC-listed models PGP-IO9 and PGP-IO9MC under the Standard for Installation and Classification of Residential Burglar Alarm Systems, UL 1641 and ULC-S302.

OVERVIEW

Figure 1: PGP-IOx

Callout	Description	Callout	Description
A	Device	D	Positioning marks
B	Optional magnet	E	Battery pull-tab

C	Transmission LED	

- For more information, refer to the section About PGP-IOx.

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.
- Verify that the IQ panel software version supports PGPIOx devices. The minimum IQ Panel 4 software version required is 4.6.0.
  1. From the panel menu, enter the Settings menu.
  2. Select Advanced Settings >Enter Code>Installation >Devices>Security Sensors > Auto Learn Sensor.Use the ID 530-XXXX for two input and two output wires. Use ID 106-XXXX for four input wires. In fallback mode (PG2 products), use ID 105-XXXX for two input and two output wires.
  3. Press the enrol button for approximately three seconds until the orange LED light turns on.
  4. **Optional:** Select Add Sensor to manually enrol the device.
     - **a.** Scan the QR Code on the device box, using the IQ4 camera if available, or see step b.
     - **b.** Manually enter the device ID, printed on the product label, in the format ID:530-XXXX or 106-XXXX.
     - **Note:** If the device has been powered up for more than 48 hours, it will be identified by the system only after the device has been reset.
     - The PGP-IOx is enrolled with device ID 530-XXXX or 106-XXXX. In fall back mode it enrolls as WL-IOG PG2 with device ID 105-XXXX.
  5. Select the desired zone.
  6. Configure any device parameters that are required.
  7. Mount and test the device. See the Local diagnostics test for information on testing the device.

Configuring the device parameters

1. On the IQ panel, enter the DEVICE SETTINGS menu and select the required configuration as described in the following table.
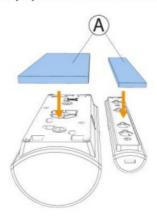
Table 1: Configuration options

Option	Action
Alarm LED	Define whether the alarm LED indication will be activated. Optional settings: **LED ON** (default) and **LED OFF**.
Reed switch (magnetic sensor)	Determine whether to enable or disable the internal reed switch (magnetic sensor). Optional settings: **Enabled** or **Disabled**
Inputs (two to four)	Define the auxiliary hard-wired input. Optional settings: **Disabled** (default), **End Of Line (EOL)**, **Double end of line (DEOL)**, **Normally Open (NO)**, or **Normally Closed (NC)**.

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 optional magnet. See the following figure.

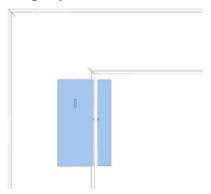Figure 2: Double-sided adhesive tape placement on the device and optional magnet

Callout	Description

A	Double-sided adhesive tape

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

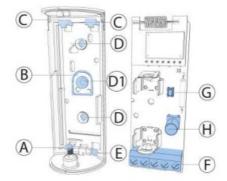**Figure 3: Optional: Device and magnet position on door and door frame**

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

Mounting the device using screws

Note: Mounting using screws is required for UL/ULC commercial burglary and residential fire-type installations. Wall tamper (break-away segment) shall also be enabled.

Figure 4: Internal view

Callout	Description
A	Flexible electronic board retainer
B	Break-away segment
C	Electronic board edge supports

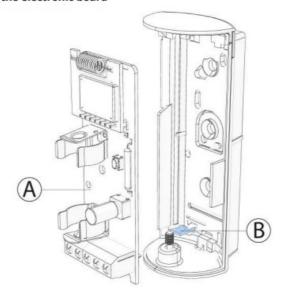| D	Mounting holes
D1	Tamper protection
E	Wiring inlet
F	Terminal block
G	Enroll button
H	Tamper switch

1. To open the device cover, use a screwdriver to loosen the cover screw and separate the base from the cover.
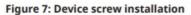
Figure 5: Device cover removal

2. Remove the battery.
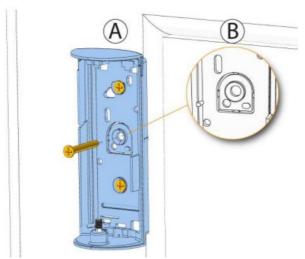3. Flex the retainer and remove the electronic board. See the following figure.

Figure 6: Removing the electronic board

Callout	Description
A	Electronic board
B	Retainer

4. Screw the device based on the door or window frame. See the following figure.
   - **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 7A.
   - A wall tamper is required for UL/ULC commercial burglary and residential fire installations and EN Grade 2 installations.

Figure 7: Device screw installation

Callout	Description
A	Screwing device base
B	Break-away Segment

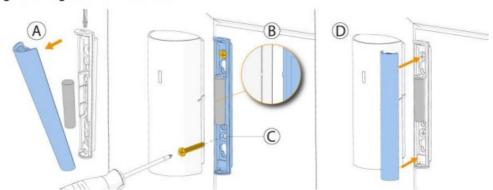5. Complete the wiring tasks and the local diagnostics test.

Optional Mounting the magnet base using screws

Note: Only for PGP-IOMC.

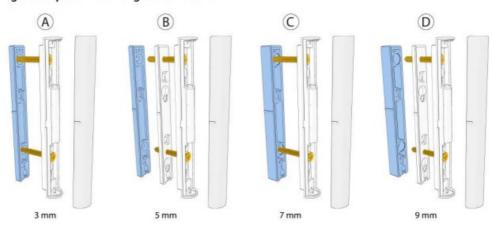1. To open the magnet cover, use a screwdriver to depress the plastic ledge on both sides of the magnet. See Figure 8A.

2. Align the magnet base to the device according to the positioning marks. See Figure 8 B.

3. Screw the magnet base onto the door or window frame. See Figure 8C.

Figure 8: Magnet screw installation

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

Figure 9: Spacer mounting combinations

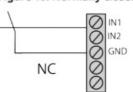| Callout	Description
A	3 mm bracket
B	3 mm bracket and 2 mm spacer
C	7 mm bracket
D	7 mm bracket and 2 mm spacer

5. Close the magnet cover. See Figure 8D.

Wiring the input

- **Note:** Depending on the panel, either two or four inputs are added.

- The auxiliary input is programmable as either Normally Open (NO), Normally Closed (NC), End Of Line (EOL), or Double End of Line (DEOL).
- If an input is configured as N.C type, series connected N.C sensor contacts must be used exclusively. An alarm message is transmitted once the loop is opened.
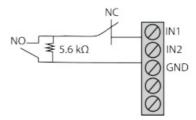
Figure 10: Normally closed

- If an input is configured as N.O type, parallel-connected N.O sensor contacts must be used exclusively. An alarm message is transmitted once the loop is closed.

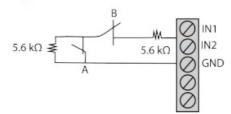**Figure 11: Normally open**

- If an input is configured as E.O.L type, N.C or N.O., sensor contacts can be used, as shown in the figure below. 5.6kΩ* resistor must be wired at the far end of the zone loop. An alarm message is transmitted once the loop is opened or short-circuited.

Figure 12: End of line

- If an input is configured as D.E.O.L type, two N.C sensor contacts can be used as shown in the figure below. Two 5.6kΩ* resistors must be wired at the far end of the zone loop.
- An alarm message is transmitted once the Alarm switch is opened. A Tamper message is transmitted once the loop is opened or a short circuit.

Figure 13: Double end of line

- **Note:** The inputs can be calibrated to work with end-of-line resistors different from 5.6kΩ. Acceptable resistor values range from 2.5kΩ to 12kΩ.

1. Make sure the device is enrolled and configured with the enabled inputs.

2. Check that all inputs are properly wired and set to their requested normal secured state.
3. Press the enrol button until the green LED lights, then release the button.
4. If the inputs are calibrated successfully, the green LED flashes three times. If the red LED flashes at this point, return to step one.
   - **Note:** During calibration, all enabled inputs must be set or wired to a normal secure state; otherwise, the calibration will fail. When the inputs are reconfigured, the calibration value goes back to its factory settings.
   - The PGP-IOx has by default two inputs and two outputs. The two outputs can be converted to two additional inputs. After the conversion, the PGP-IOx functions as described in the figure below.
   - To convert a PGP-IOx device from 2 inputs and 2 outputs to a 4-input device, complete the following steps.
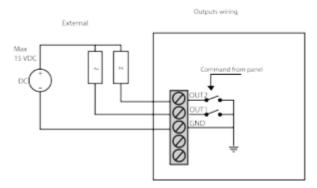
Figure 14: Inputs wiring


```
IN1
IN2
GND
IN3
IN4
```

5. Press the enrol button until the red LED turns on, then release the button. If the device has been converted successfully to a 4-input device, the red LED flashes three times. The device is now ready to be enrolled as a 4-input device. The converted device is shown in the panel as Contact + 4in and has an identification prefix of 106-1234 (instead of 105-1234).
6. To convert the device back to 2 inputs and 2 outputs device, press the enroll button until red LED turns on. When red LED is on, release the button. If the device has been converted back successfully to 2 inputs and 2 outputs device, the green LED flashes three times.

Wiring the output

The general purpose outputs are designed for controlling apparatuses having dry-contact control inputs. These general-purpose outputs can withstand up to 15 VDC (off state, open loop) and are capable of sinking up to 1 A (on state, closed loop).

Figure 15: Outputs wiring
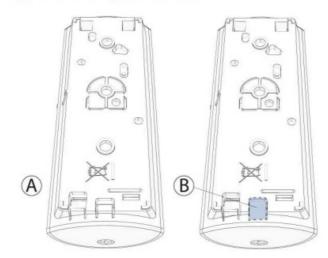
1. Check apparatus specifications for maximum port voltage and maximum load current.
2. Disconnect the battery.
3. Connect the apparatus to the device as shown in the figure…
4. Tighten the connector screws.
5. Insert the battery.

Wiring the terminal block
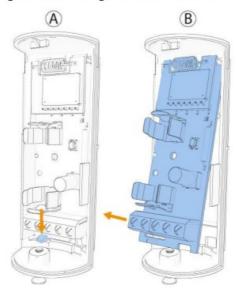
1. To open the device cover, use a screwdriver to loosen the cover screw and separate the base from the cover. See Figure 5.
2. Use long-nose pliers to remove the wiring inlet. See Figure 16.

Figure 16: Removing the knock-out
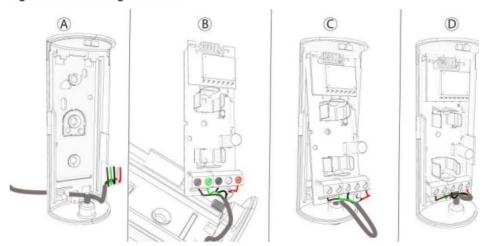
3. Remove the electronic board from the plastic case. See the following figure.

Figure 17: Removing the electronic board

4. Insert the cable into the space where the knock-out was removed. See Figure 18 A.

5. Connect the wires to the terminal block. See Figure 18 B.

6. Connect the cable with a screw. See Figure 18 C.

7. Verify that the cable is placed in the correct position and adjust if necessary.

8. To reattach the electronic board to the base, flex the retainer and place the electronic board under the electronic board edge supports. See Figure 18D.

Figure 18: Connecting the cable
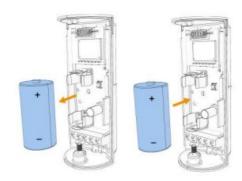
Replacing the battery

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.

1. Remove the device cover. See Figure 5.

2. Remove the battery. See Figure 19.

3. Insert the new battery while observing battery polarity. See Figure 19.

Figure 19: Battery removal and insertion

4. Press down on the battery until it fits into place.
5. Close the device cover and fasten the cover screw. See Figure.
   - **Note:** After restoring a low battery, the system may take up to 5 minutes to clear the trouble

Associating an output with a PGM number

The following steps are relevant for IQ panels. For other panels, refer to the control panel installation manual.
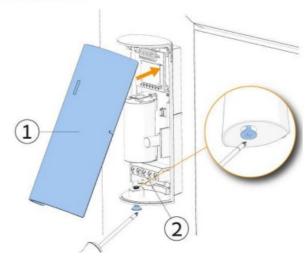
1. In the panel menu, select Settings.
2. Select Advanced Settings > Installation > Devices>Security Sensor.
3. Select PGM Output Rules.
4. Find and select the desired device: 530-XXXX or 106-XXXX. Fallback: 105-XXXX or 106-XXXX.
5. Edit rule PGM1 or PGM2.
6. Select ADD and modify all parameters as required.
7. Define location.

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 5.
2. Clip the cover onto the device base, return the tamper switch to its normal position, and tighten the cover screw. See the following figure.

Figure 20: Closing the device cover

3. Momentarily open the door or window and verify the red LED blinks, indicating detection.

- After 2 seconds, the LED blinks in one of the colours described in the following table. The following table indicates the received signal strength indication.

Table 2: 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 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:** For UL/ULC installations, only strong signal levels are acceptable.
- **Note:** After installation, verify the product functionality in conjunction with the compatible receivers.

Optional: Directional magnet distances for event triggers

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

Figure 21: Range coverage directions
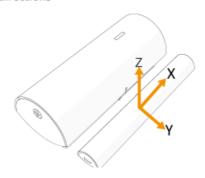
Table 3: Directional magnet distances for event triggers

Non-metallic surface		Supports	Metallic surface	
Opening	Closing	Direction	Opening	Closing
13 mm ±5 mm	13 mm ±5 mm	X	10 mm ±5 mm	10 mm ±5 mm
22 mm ±5 mm	19 mm ±5 mm	Y	10 mm ±5 mm	10 mm ±5 mm
24 mm ±5 mm	27 mm ±5 mm	Z	12 mm ±5 mm	11 mm ±5 mm

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
Battery type	3 V Lithium CR123A GP, Panasonic, or Duracell battery only

Battery life	5 years with typical use.
Low battery threshold	2.4 V at room temperature 25°C (77°F)
Nominal operating voltage	3 V
Minimum current	2 uA
Maximum current	70 mA
Operating temperature	-10 to 50°C
Storage temperature	-20°C (-4°F) to 70°C (158°F)
Relative humidity	Up to 93% non-condensing
Inputs	2.5kΩ-12kΩ supervision resistors (field calibrated), up to 100Ω wire resistance. Up to 1nF wire capacitance (typically 15m for 2-wire 22 AWG cable).
Outputs	Up to 15VDC (OFF state, open loop, ~20uA leakage current). Up to 1A (ON state, closed loop, ~0.25V terminal dropout).
Dimensions (LxWxD)	89 mm x 37 mm x 30 mm (3.5 in. x 1.5 in. x 1.2 in.)
Weight (including battery)	53 g (1.9 oz)
Color	White
Auxiliary Input EOL Resistor	5.6 KΩ

Compliance with standards

PGP-IOx complies with the following standards:

PGP-IO9 PGP-IO9MC	**FCC (912 to 919 MHz):** 47CFR part 15.427 **ISED (912 to 919 MHz):** RSS-247 **UL/ULC:** UL 634, ULC/ORD-C634, UL 985, ULC-S545
PGP-IO8	EN 300220, EN 301489, EN 50130-4, EN 50130-5, EN 61000-6-3, EN 62368-1, EN 50131-1, EN 50131-5-3 Grade2, 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

PGP-IO8 is certified by KIWA under EN 50131-1, 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 PGPIO8 complies 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/xxxxxx**

FCC and ISED Canada Compliance Statement

This device complies with FCC Rules Part 15 and with ISED Canada license-exempt RSS standard(s). Operation is subject to two conditions:

1. This device may not cause harmful interference
2. This device must accept any interference that may be received or that may cause undesired operation.

To comply with FCC Section 1.1310 for human exposure to radio frequency electromagnetic fields and ISED Canada 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.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, under 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 under 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 to 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.

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

Only models PGP-IO9 and PGP-IO9MC operating in the frequency band 912-919MHz are UL/cUL listed. The PGPIOx has been listed by UL/ULC for commercial and residential burglary applications by the requirements in the Standards UL 634 and ULC/ORD-C634 for contacts and switches, and under UL985 and ULC-S545 as a residential fire RF transmitter (short range). For UL/ULC installations use these device only in conjunction with compatible DSC wireless receivers: HSM2HOST9, HS2LCDRF(P)9, HS2ICNRF(P) 9, HS2LCDRFPRO9, PG9920, and Qolsys IQPanel2,

IQHub, IQPanel4, IQ4 Hub, IQ4 NS and Tyco IQ Pro, and IQ Pro P. 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 a pollution degree of 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 minimise the risks to that person or other persons). The detector is to be installed in an indoor dry location. Exposure to weather or corrosive conditions may damage the unit.

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.

About PGP-IOx

- The PGP-IOx is a two-way wireless transceiver and magnetic contact device which comprises two general-purpose inputs, two general-purpose outputs (PGM), and an onboard reed switch (magnetic sensor).
- The device includes a built-in reed switch that opens when the magnet is removed from the contact.
- Each of the two general-purpose inputs can be remotely configured as 'Normally-Closed', 'Normally-Open', 'End-of-Line' or 'Double-End-of-Line' input.
- The general purpose outputs are designed for controlling apparatuses having dry-

contact control inputs.

- These general-purpose outputs can withstand up to 15VDC (OFF state, open loop) and are capable of sinking up to 1A (ON state, close loop).
- The device is tamper protected, both front cover tamper and back mounting tamper.
- Operating power is obtained from an onboard 3V Lithium battery. The battery voltage is monitored and reported when low battery conditions are detected.

The device has the following features:

- Two-way PowerG communication with the control panel
- Front cover and back cover tamper detection
- A periodic supervision message is transmitted automatically to the control panel at a regular interval
- Signal strength LED indication during installation
- Discrete transmission of supervision message
- PowerG two-way frequency hopping spread spectrum time-division multiple access (FHSS-TDMA) technology
- Low battery indication
- Remote firmware upgrade
- User-selectable operation of auxiliary input as Normally open, Normally closed, End of Line (EOL), Double EOL, or Triple EOL
- Temperature sensing and reporting

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 12 months from the date of purchase, the product shall be free of defects in materials and workmanship under normal use and that in fulfilment 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.

- The foregoing warranty shall apply only to the original buyer, and is and shall be instead of any and all other warranties, whether expressed or implied and of all other obligations or liabilities on the part of JCI. JCI neither assumes responsibility for, nor authorizes any other person purporting to act on its behalf to modify or to change this warranty, nor to assume for it any other warranty or liability concerning this product.
- In no event shall JCI be liable for any direct, indirect or consequential damages, loss of anticipated profits, loss of time or any other losses incurred by the buyer in connection with the purchase, installation or operation or failure of this product.
- **Warning:** JCI recommends that the entire system be completely tested regularly. 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.

EULA

- **IMPORTANT READ CAREFULLY:** DSC Software purchased with or without Products and Components is copyrighted and is purchased under the following license terms:
- This End User License Agreement ("EULA") is a legal agreement between You (the company, individual or entity who acquired the Software and any related Hardware) and Digital Security Controls, a division of Tyco Safety Products Canada Ltd. ("DSC"), the manufacturer of the integrated security systems and the developer of the software and any related products or components ("HARDWARE") which you acquired.
- If the DSC software product ("SOFTWARE PRODUCT" or "SOFTWARE") is intended to be accompanied by HARDWARE, and is NOT accompanied by new HARDWARE, You may not use, copy or install the SOFTWARE PRODUCT.
- The SOFTWARE PRODUCT includes computer software, and may include associated media, printed materials, and "online" or electronic documentation.
- Any software provided along with the SOFTWARE PRODUCT that is associated with a separate end-user license agreement is licensed to you under the terms of that license agreement.
- By installing, copying, downloading, storing, accessing or otherwise using the SOFTWARE PRODUCT, you agree unconditionally to be bound by the terms of this EULA, even if this EULA is deemed to be a modification of any previous arrangement

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- **Website: www.dsc.com**
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- **D-309505 Rev. 0 (07/24)**

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- **D-309505 PGPIOx Rev. 0**

FAQ

- **Q: What is the minimum IQ Panel software version required for PGP-IOx devices?**
    - **A:** The minimum IQ Panel software version required is 4.6.0.
- **Q: How should I dispose of the used battery in the device?**
    - **A:** Dispose of the used battery according to the manufacturer's instructions to avoid any risk of explosion.

Documents / Resources

	[Johson Control PGP-IOx Two-Way Wireless Transceiver](#) [[pdf](#)] Installation Guide PGP-IO8, PGP-IO9, PGPIO9MC, PGP-IOx Two-Way Wireless Transceiver, PGP-IOx, Two-Way Wireless Transceiver, Wireless Transceiver, Transceiver

References

- [User Manual](#)

📁 Johson Control

🏷 Johson Control, PGP-IO8, PGP-IO9, PGP-IOx, PGP-IOx Two-Way Wireless Transceiver, PGPIO9MC, Transceiver, Two-Way Wireless Transceiver, Wireless Transceiver

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