



PG8WLSHW8 and PG9WLSHW8 PowerG Wired to Wireless Converter Installation Manual



Contents

Safety instructions.....	5
Introduction.....	5
Technical Specifications.....	5
Installing the equipment.....	7
Mounting the equipment.....	8
Mounting the enclosure.....	9
Mounting the power adapter.....	9
Wiring the zones.....	10
Normally open and normally closed wiring.....	11
Single end-of-line resistors.....	11
Double end-of-line resistors.....	12
Wiring programmable outputs.....	13
Wiring a fire zone.....	16
Wiring a CO detector or 4-wire smoke detector.....	17
Wiring auxilliary power.....	18
Wiring the bell output.....	18
Installing the battery.....	18
Wiring the equipment.....	19
Wiring the power supply.....	19
Wiring the battery.....	19
Enrolling the module.....	20
Testing the module placement.....	20
Enrolling wired zones automatically.....	21
Attaching the cover.....	21
Status LEDs.....	22
Troubleshooting.....	22
FCC and ISED Canada Information.....	23
Modification statement.....	23
Interference statement.....	23
Wireless notice.....	23
FCC class B digital device notice.....	23
UL and ULC notes.....	24
UL commercial and residential installation requirements and considerations.....	24
UL commercial, UL household, and ULC security level I burglar alarm unit.....	24
UL and ULC household fire warning system.....	24
European CE Compliance and CERTALARM Certification.....	25
Simplified EU declaration of conformity.....	25
EULA.....	26
SOFTWARE PRODUCT LICENSE.....	26
Limited warranty.....	28

International Warranty.....	29
Warranty Procedure.....	29
Conditions to Void Warranty.....	29
Items Not Covered by Warranty.....	29
Disclaimer of Warranties.....	30
Out of Warranty Repairs.....	30
Trademark.....	30

Safety instructions

Read the safety information before you install the equipment.

Important: This equipment must be installed by a skilled person only. A skilled person is an installer with appropriate technical training. The installer must be aware of potential hazards during installation and measures available to minimize risks to the installer and other people.

- Before you install this equipment, disconnect all power sources (for example mains, battery, and telephone line) connected to the alarm panel.
- Install the equipment indoors in a non-hazardous environment where the following conditions are met:
 - Pollution degree - Maximum 2
 - Over voltages - Category II
- Internal wiring must be routed to prevent strain on wire and terminal connections, loose terminal connections, and damage to conductor insulation.
- Instruct the user that there are no user serviceable parts in this equipment. All equipment must be serviced by a skilled person.

Introduction

The PowerG Wired to Wireless Converter converts existing hardwired zones to PowerG wireless zones.

There are two models, the PG8WLSHW8 and PG9WLSHW8, and each provide eight hardwired zones and four programmable outputs. This document describes how to mount the enclosure, wire zones, connect the battery, enroll devices, and troubleshoot.

Note: Only PG9WLSHW8 is UL and ULC listed. For UL and ULC installations, use this device only in conjunction with compatible wireless receiver and control panel combinations, model Qolsys IQPanel2.

Before you begin, make sure that the kit contains the following items:

- The plastic enclosure containing the PowerG Wired to Wireless Converter
- The transformer
- The hardware pack

Technical Specifications

The following table outlines the electrical ratings of the components of the PowerG Wired to Wireless Converter.

Table 1: Technical specifications

Type	Description
DC input voltage and current	18 V DC, 2.2 A. Manufacturer: ShenZhen SOY Technology Co. Ltd. Model: SOY-1800222-NA DSC part number: PGWLSH40A
Battery type	Sealed, rechargeable lead acid
Battery charging voltage and current	13.7 V DC, 350 mA
Low battery threshold	11.5 V DC
Battery cutoff level	9.8 V DC
Standby battery	12 V/ 7 Ah 24-hour standby time and 5-minute alarm time for residential fire applications and 12-hour CO alarm 4-hour standby time and 5-minute alarm time for residential burglary applications 4-hour standby time and 15-minute alarm time for commercial burglary applications Note: For EN50131 Grade 2 applications, the devices provide 12 hours of standby time and recharge in 72 hours.
Bell circuit voltage and current	11.3 V DC to 12.5 V DC, maximum current 700 mA continuous Note: The bell output supports continuous burglary alarms, T3 fire alarms, and T4 CO alarms. Alarms sound in the following priority: fire alarm, CO alarm, burglary alarm, and other alarms.
Auxilliary power voltage and current Note: AUX1 is used only for burglary alarm initiating devices. AUX2 is used only for fire alarm initiating devices.	11.3 V DC to 12.5 V DC, maximum current 700 mA shared between the AUX1 and AUX2 and PGM outputs. Ripple: 50 mVpp Note: For 24-hour standby, the AUX current must not exceed 180 mA.
PGM 1, 3, and 4 voltage and current	11.3 V DC to 12.5 V DC, 50 mA
PGM 2 voltage and current	11.3 V DC to 12.5 V DC, 300 mA
Operating temperature	-10°C to 55°C Note: UL and ULC only verified operation for the range 0°C to 49°C.

Table 1: Technical specifications

Type	Description
Humidity	5% to 93% RH non-condensing Note: UL and ULC only verified operation for 93% RH.
Dimension	250 mm x 225 mm x 80 mm
Weight	2.85 kg including the battery

Note: The PGM outputs are shared with the AUX terminals.

Installing the equipment

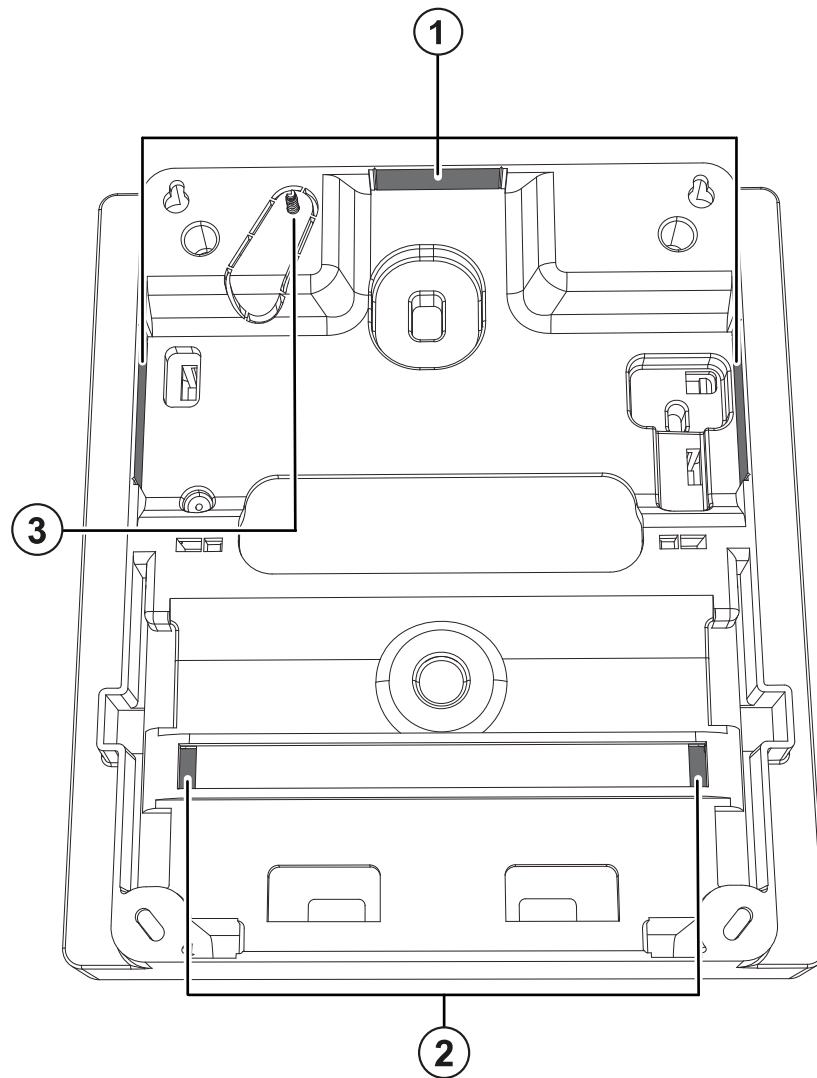
This section describes how to mount the enclosure, install the battery, and wire the system.

The enclosure has three breakaway tabs that you can use for wiring access during installation. There are also two slots for the battery strap to pass through. For more information, see the highlighted areas in Figure 1.

Note: Remove the breakaway tabs only if required.

Note: Install the equipment in the protected area of the protected premises. The wiring methods shall be in accordance with the National Electrical Code, ANSI/NFPA 70, the Standard for Installation and Classification of Burglar and Holdup Alarm Systems, UL 681, and the Standard for Central Station Alarm Services, UL 827. This equipment should be installed in accordance with Chapter 29 of the National Fire Alarm and Signaling Code, ANSI/NFPA 72, (National Fire Protection Association, Batterymarch Park, Quincy, MA 02269).

Figure 1: Breakaway tabs and battery strap slots



Callout	Description
1	Breakaway tabs
2	Slots for the battery strap Note: Securing the battery in the enclosure with the battery strap is optional. The battery strap is sold separately.
3	Wall tamper screw

Mounting the equipment

This section describes how to mount the enclosure and the external power adapter.

Mounting the enclosure

To mount the enclosure, complete the following steps:

1. Use the four screws provided to secure the enclosure to the wall. For more information, see the highlighted areas in Figure 2.

Note: Screws are provided only for the model PG9WLSHW8.

2. To enable the wall tamper, secure the tamper screw to the wall. For more information, see Figure 2.

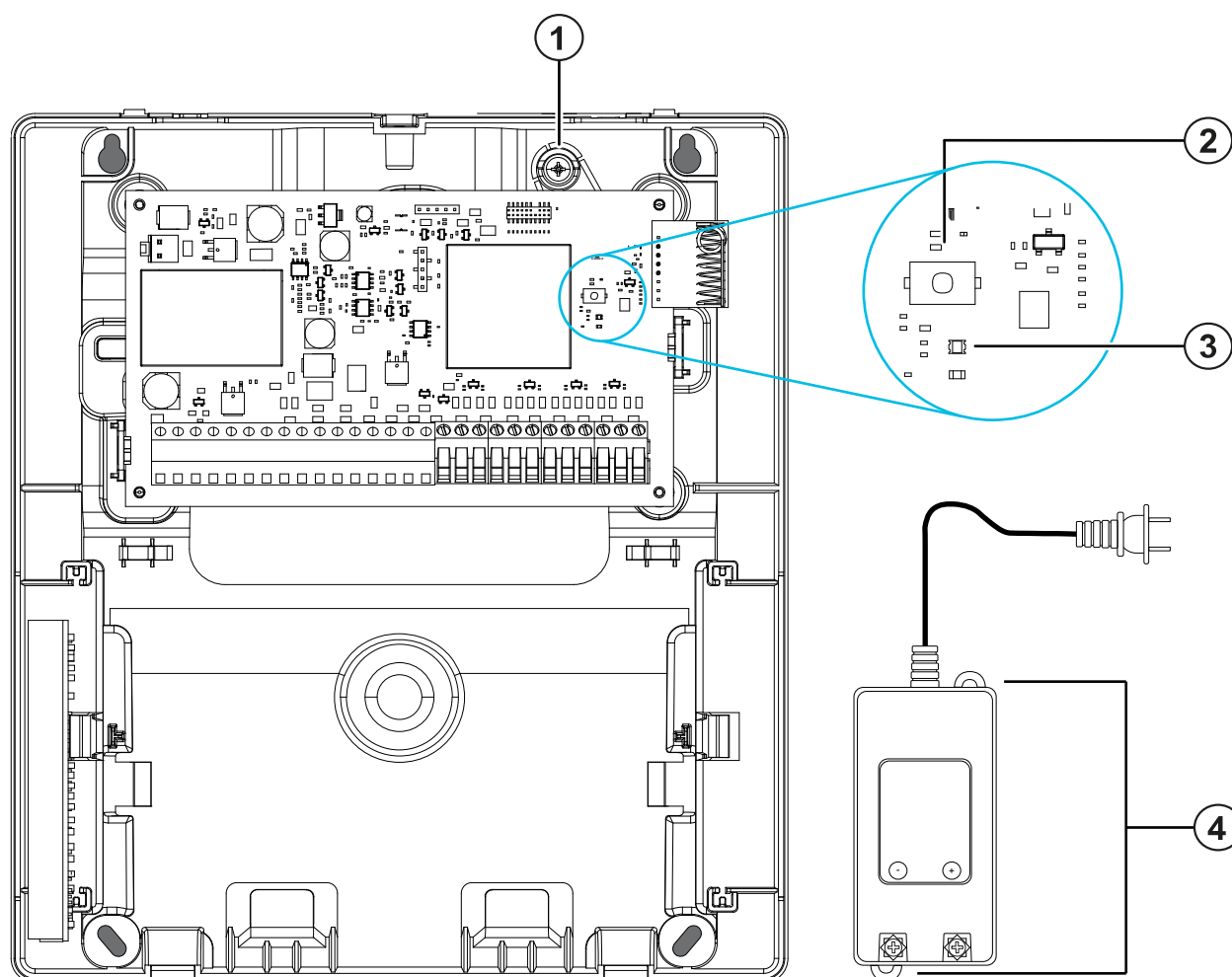
Mounting the power adapter

You must mount the power adapter outside the PGXWLSHW8 enclosure. To mount the power adapter, complete the following step:

- Use two screws to secure the power adapter to the wall. For more information, see Callout 4 in Figure 2.

Note: Mount the power adapter close to an AC power outlet so there is no strain on the power cable. Do not connect the power adapter to a receptacle controlled by a switch.

Figure 2: Mounting locations



Callout	Description
1	Wall tamper screw
2	Enrollment button
3	Status LED
4	Power adapter mounting tabs

Use the following table to determine the distance and gauge for the secondary wiring.

Table 2: Wiring distance and gauge

Distance (m/ ft)	Gauge (AWG)
2/ 6.5	22
3/ 10	20
4/ 13	18

For UL and ULC installations, use a primary input with ratings of 120 VAC, 60 Hz, and 1.2 A.

For CE and EN50131 Grade 2 installations, use a primary input with ratings 230 VAC, 50 Hz, and 1.2 A.

For all installations, the output rating of the power adapter is 18 VDC and 2.22 A.

Wiring the zones

You can wire zones to supervise normally open devices, for example smoke detectors, or normally closed devices, for example door contacts. You can program the PGXWLSHW8 for single end-of-line (SEOL) resistors, or double end-of-line (DEOL) resistors.

Note: For UL and ULC installations, use only UL and ULC listed initiating devices that are compatible with the auxiliary output power range provided by the converter.

CAUTION: Ensure the alarm controller is turned off before you wire the equipment.

When you wire zones, observe the following guidelines:

- For UL and ULC listed installations, only use SEOL or DEOL connections.
- Use a minimum wire size of 22 AWG and a maximum wire size of 18 AWG.
- Do not use shielded wires.
- Do not exceed a wire resistance of 100 Ω . For more information, see the following tables.

Table 3: Wiring chart

Wire gauge (AWG)	Maximum distance to EOL resistor (m/ ft)
22	914/ 3000
20	1493/ 4900
19	1889/ 6200
18	2377/ 7800

Note: Distances are based on a maximum wiring resistance of 100 Ω .

Normally open and normally closed wiring

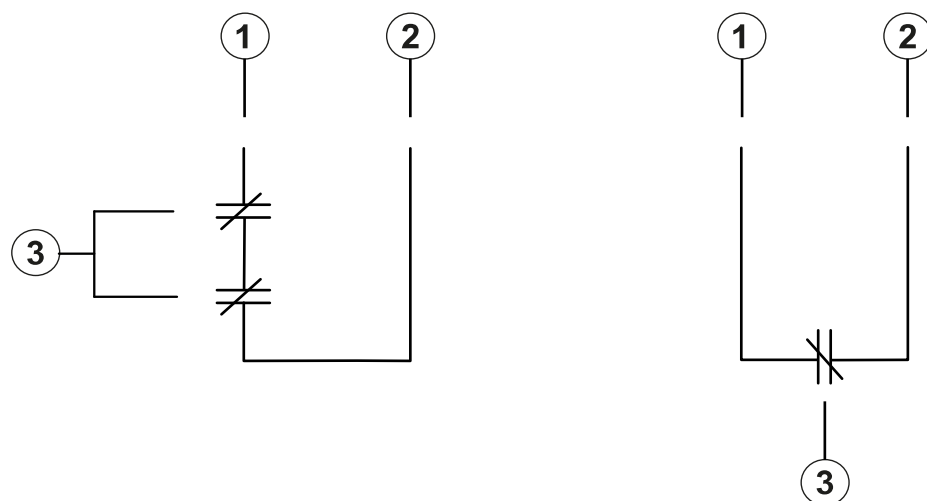
Wire normally closed devices in series and normally open devices in parallel. To wire hardwired devices, complete the following steps:

1. Wire the device to any Zone terminal.
2. Wire the device to any COM terminal.

Note: For UL and ULC installations, do not use normally closed loops.

The following figure shows you how to wire normally closed loops. The image on the left shows two normally closed contacts with no end-of-line resistor, and the image on the right shows one normally closed contact with no end-of-line resistor.

Figure 3: Normally closed loops



Callout	Description
1	Zone terminal
2	COM terminal
3	Normally closed contact

The following table shows the zone status for a given resistance value.

Table 4: Normally closed zone status

Resistance	Description	Zone status
0 Ω	Shorted wire, loop shorted	Secure
Infinite	Broken wire, loop open	Alarm

Single end-of-line resistors

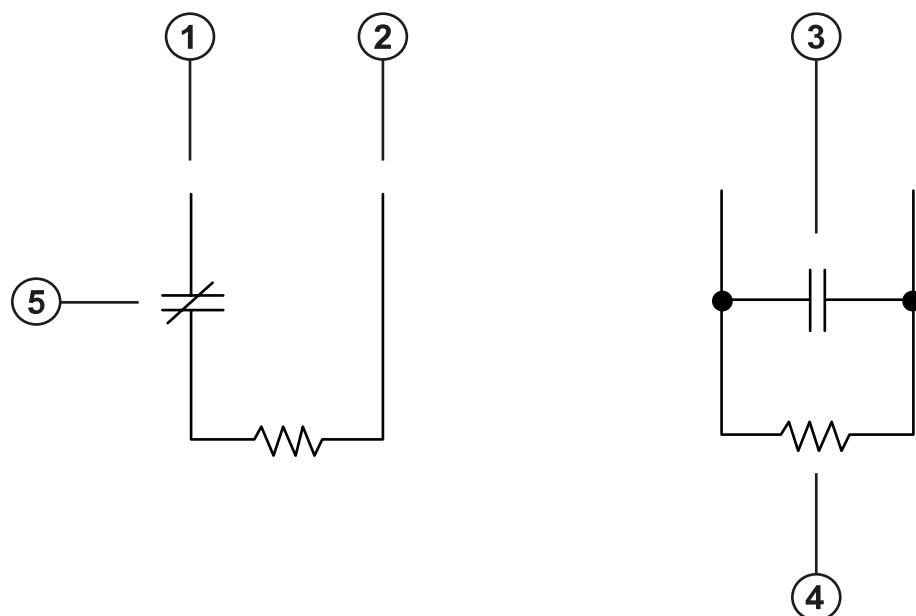
You can use SEOL resistors to detect if a circuit is secure, open, or shorted. Use this option if you use either normally closed or normally open devices.

You can configure SEOL supervision through zone programming on the control panel.

The following figure shows the different wiring configurations for SEOL resistors. The image on the left shows one normally closed contact with an SEOL resistor, and the image on the right shows one normally open contact with an SEOL resistor.

Note: SEOL resistors can have a resistance between 1 k Ω and 10 k Ω . You must install the SEOL resistor at the end of the loop. UL and ULC verified functionality only with a 5.6 k Ω SEOL resistor.

Figure 4: SEOL wiring



Callout	Description
1	Zone terminal
2	COM terminal
3	Normally open contact
4	End-of-line resistor
5	Normally closed contact

The following table shows the zone status for a given resistance value.

Table 5: SEOL zone status

Resistance	Description	Status
0 Ω	Shorted wire, loop shorted	Alarm
1 k Ω to 10 k Ω	Contact closed	Secure
Infinite	Broken wire, loop open	Alarm for burglary zones and Trouble for fire zones

Double end-of-line resistors

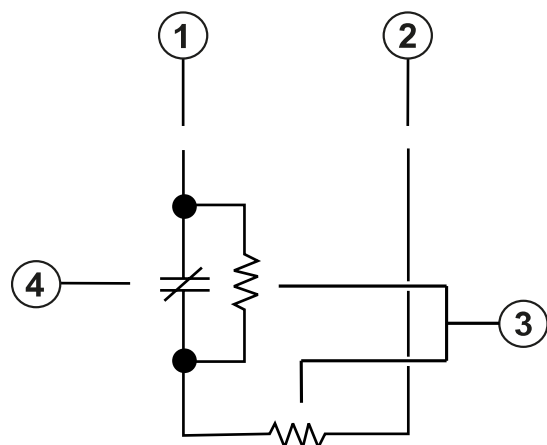
If you use DEOL resistors at the end of a zone loop, the second resistor detects if a zone is in alarm, tampered, or faulted. You can select DEOL supervision only if you are using normally closed devices or contacts. You can use only one normally closed contact in each zone.

Note: Any zone programmed for fire or 24 hour supervisory must be wired with a SEOL resistor regardless of the type of zone wiring supervision selected for the panel. If you change the zone supervision from DEOL to SEOL, or from NC to DEOL, turn off the system completely and then turn on the system for correct operation.

You can configure DEOL supervision through zone programming on the control panel.

Note: If you select DEOL supervision, do not wire fire zones to keypad zone terminals.

Figure 5: DEOL wiring



Callout	Description
1	Zone terminal
2	COM terminal
3	5600 Ω end-of-line resistor
4	Normally closed contact

Note: DEOL wiring is only for burglary use.

The following table shows the zone status for a given resistance value:

Table 6: DEOL zone status

Resistance	Description	Status
0 Ω	Shorted wire, loop shorted	Trouble
5600 Ω	Contact closed	Secure
Infinite	Broken wire, loop open	Tamper
11200 Ω	Contact open	Alarm

Wiring programmable outputs

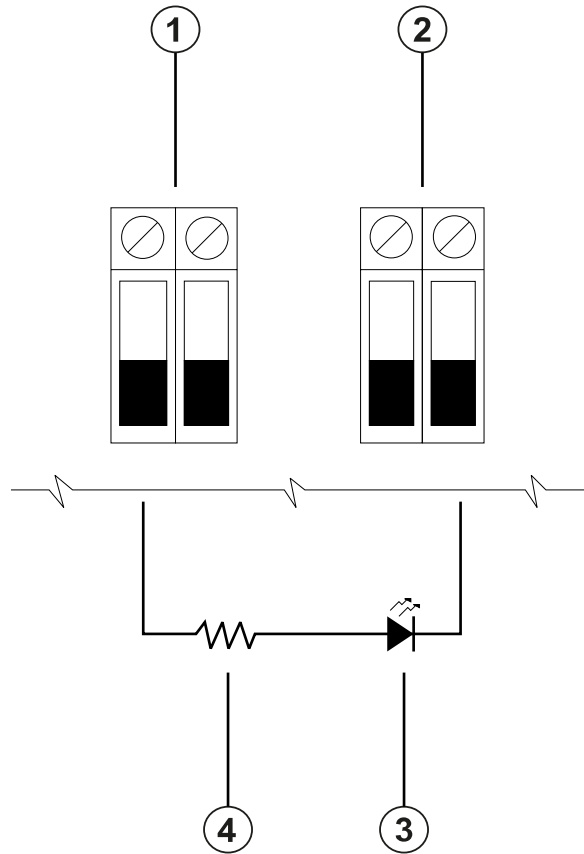
You can use the programmable (PGM) outputs to activate devices such as LEDs and buzzers. To wire an output to the PGM, complete the following steps:

1. Connect the positive wire from the device to the AUX+ terminal.
2. Connect the negative wire from the device to the PGM terminal.

Note: If the device requires a current greater than the rated value of the PGM output, a relay is required.

To wire the LED indicator, see Figure 6.

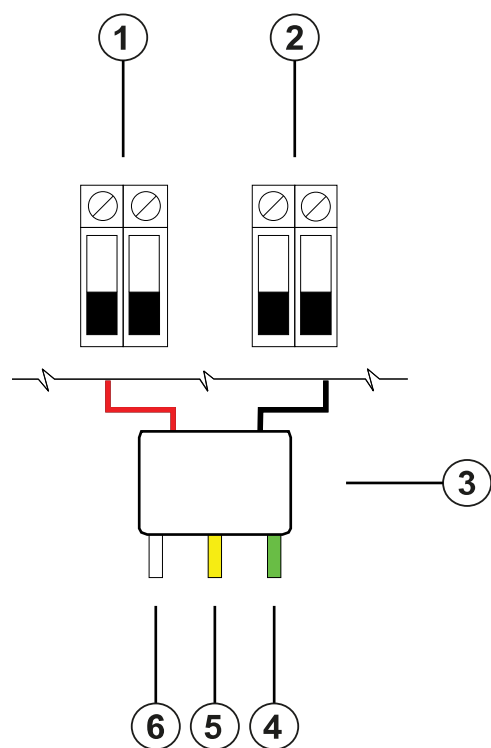
Figure 6: LED indicator wiring



Callout	Description
1	AUX terminals
2	PGM terminals
3	LED indicator
4	680 Ω resistor (typical value)

To wire the relay output, see Figure 7.

Figure 7: Relay output wiring

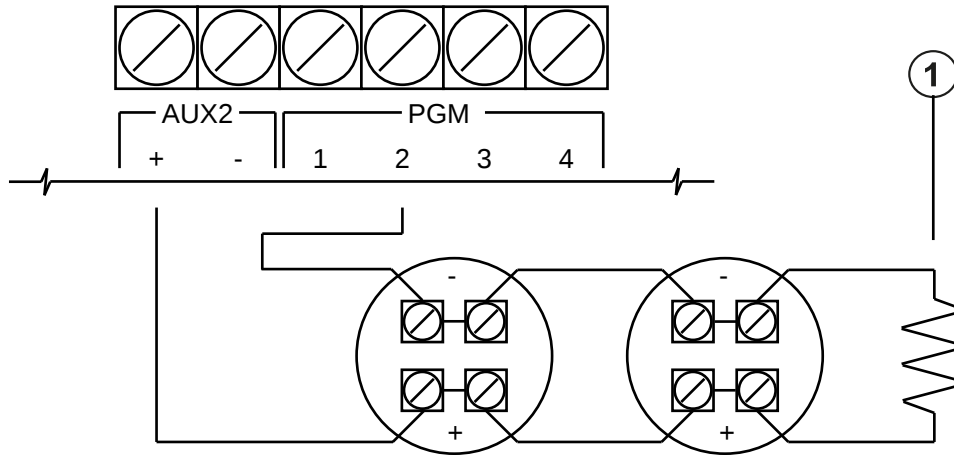


Callout	Description
1	AUX terminals
2	PGM terminals
3	Relay (RM-1 and RM-2)
4	To normally open connection
5	To normally closed connection
6	To COM terminal

Wiring a fire zone

If you program PGM2 for use with a 2-wire smoke detector, you must wire it according to the following figure:

Figure 8: 2-wire smoke detector wiring



Callout	Description
1	2200 Ω end-of-line resistor

Note: You must connect 2-wire smoke detectors in parallel.

Note: You can wire a maximum of 18 smoke detectors on a 2-wire loop.

Note: Do not use smoke detectors from different manufacturers on the same circuit as their operation may be impaired. Refer to the smoke detector installation sheet when you position detectors.

Note: For UL and ULC residential fire applications, use only the AUX2 output to provide power to smoke and CO detectors.

The following table lists compatible 2-wire smoke detectors:

Table 7: 2-wire smoke detectors

Detector name			
FSA-210X	FSA-210XST	FSA-210XRT	FSA-210XLRST
FSA-210XT	FSA-210XLST	FSA-210XRS	C2W-BA
FSA-210XS	FSA-210XR	FSA-210XRST	C2WTA-BA

Note: X in the detector name represents A for ULC and B for UL listed models.

Note: The current rating for the DSC FSA-210B series is 35 mA.

The UL compatibility ID for the FSA-210B series is FS200.

Note: For ULC listed installations, use FSA-210A series detectors or FSA-410A series detectors.

Table 8: 2-wire smoke detector initiation circuit

Item	Specification
Style (class), supervised, power limited	Style B (class B)
Compatibility identifier	PG9WLSHW8-1
DC output voltage	9.7 VDC to 13.8 VDC
Detector load	2 mA maximum
SEOL	2200 Ω
Loop resistance	24 Ω maximum
Minimum standby impedance	1250 Ω nominal
Maximum alarm impedance	707 Ω maximum
Alarm current	86 mA maximum

Wiring a CO detector or 4-wire smoke detector

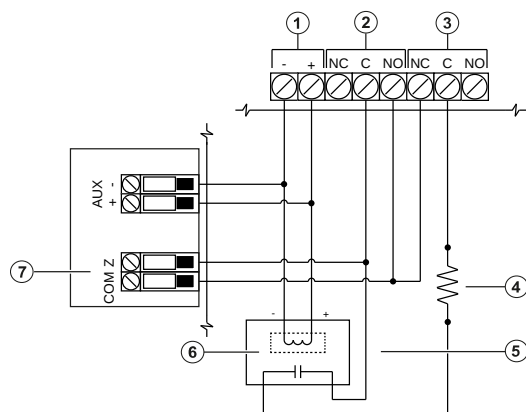
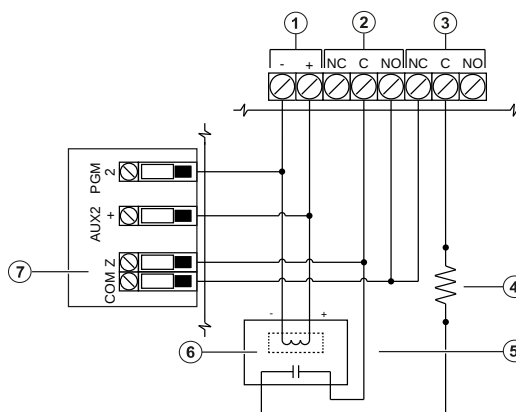
The following table lists the maximum rating at 12 VDC of the hardwired CO detectors that are compatible with the PG9WLSHW8 converter.

Table 9: CO detector ratings

Device	Manufacturer	UL file number	Rating
CO-12/24	Potter	E321434	40 mA
12-24SIR	Quantum	E186246	75 mA

Note: If you wire multiple CO detectors on the same loop, you must break the leads between each CO detector. You must power the supervision relay from the last detector in the loop.

To wire a CO detector or 4-wire smoke detector, see the following figures:

Figure 9: CO detector wiring**Figure 10: 4-wire smoke detector wiring**

Callout	Description
1	CO or 4-wire smoke detector power terminals
2	CO or 4-wire smoke detector alarm terminals
3	CO detector trouble terminals
4	5600 Ω single end-of-line resistor

Callout	Description
5	100 Ω alarm initiating loop
6	RM-1 or RM-2 power loop supervisory relay, 12 VDC, 35 mA.
7	Module zone input

Note: You can manually configure PGM2 as a 2-wire smoke loop. If you configure any zone input as a fire zone, PGM2 is automatically set as a 4-wire smoke detector, and acts as a power reset. You cannot combine 2-wire detectors and 4-wire smoke detectors at the same time on the converter.

Wiring auxilliary power

You can use the auxilliary power terminals to power devices such as motion detectors and glass break detectors. The AUX1 and AUX2 terminals provide a combined current of 700 mA.

Note: For UL and ULC combination fire and CO and burglary applications, the fire and CO initiating devices, such as smoke detectors, heat detectors, and CO detectors, must be powered from a separate output (AUX2) than the burglary initiating devices (AUX1).

Note: For UL and ULC installations that require 24-hour backup capacity, the maximum AUX power load cannot exceed a current of 180 mA when using a 7 Ah battery.

Wiring the bell output

You can use the BELL terminals to power a bell, siren, or other device which requires a steady output voltage when the system is in alarm. The panel provides a current of up to 700 mA.

Note: A 1 k Ω resistor is required across the BELL+ and BELL- terminals, or the system detects a trouble condition.

Installing the battery

To install the 12 V/ 7 Ah battery in the enclosure, complete the following steps:

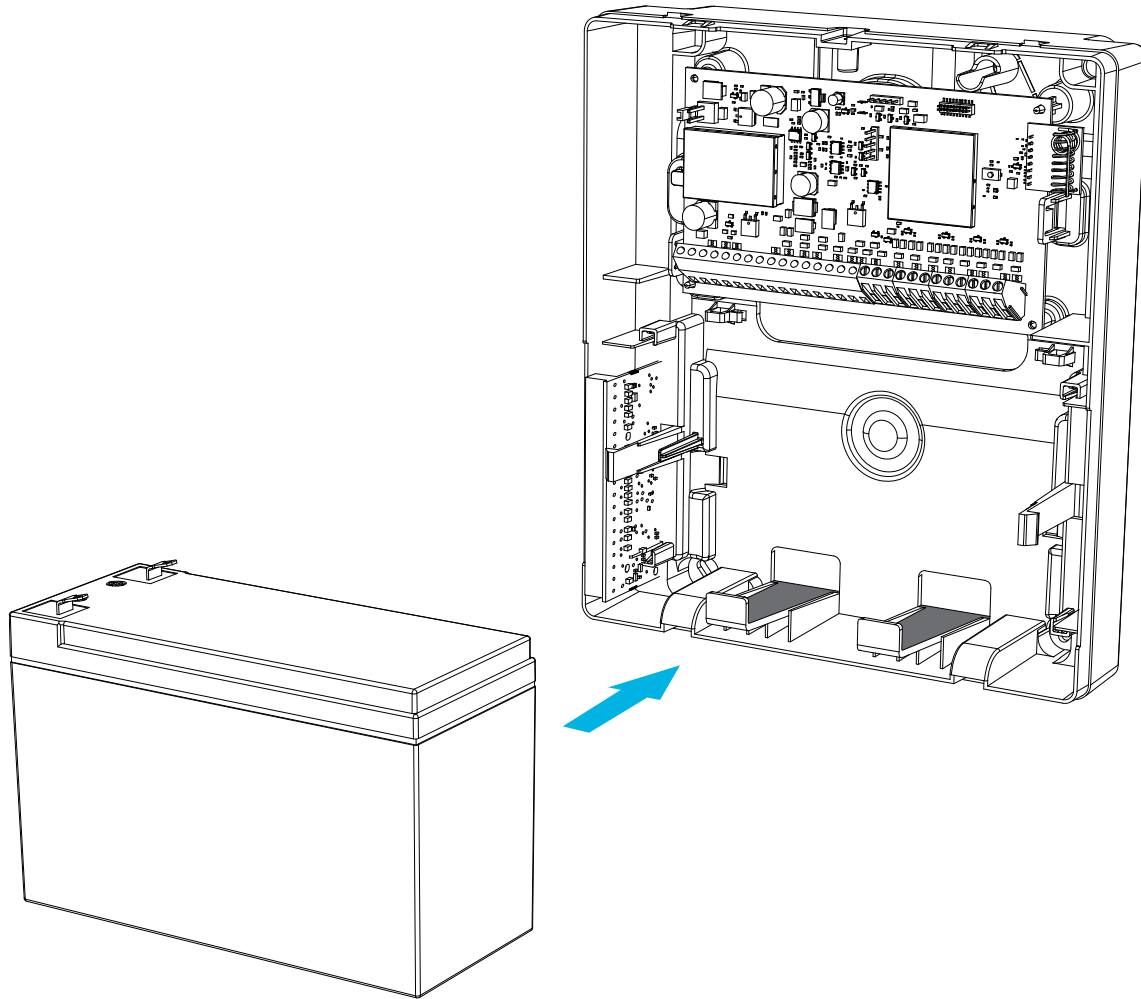
Note: The battery is sold separately.

1. Place the battery on the two plastic supports on the bottom of the enclosure. For more information, see Figure 11.
2. Clip the battery in place.
3. **Optional:** The battery can also be secured in place using a battery strap. To secure the battery using the battery strap, complete the following steps:

Note: The battery strap is sold separately.

- a. Place the battery on the two plastic supports on the bottom of the enclosure.
- b. Insert the battery strap through one of the slots.
- c. Wrap the strap around the front of the battery.
- d. Insert the strap through the second slot.

Figure 11: Installing the battery



Wiring the equipment

This section describes how to wire the external power supply and battery. For more information, see Figure 12.

Wiring the power supply

To wire the external power supply, complete the follow steps:

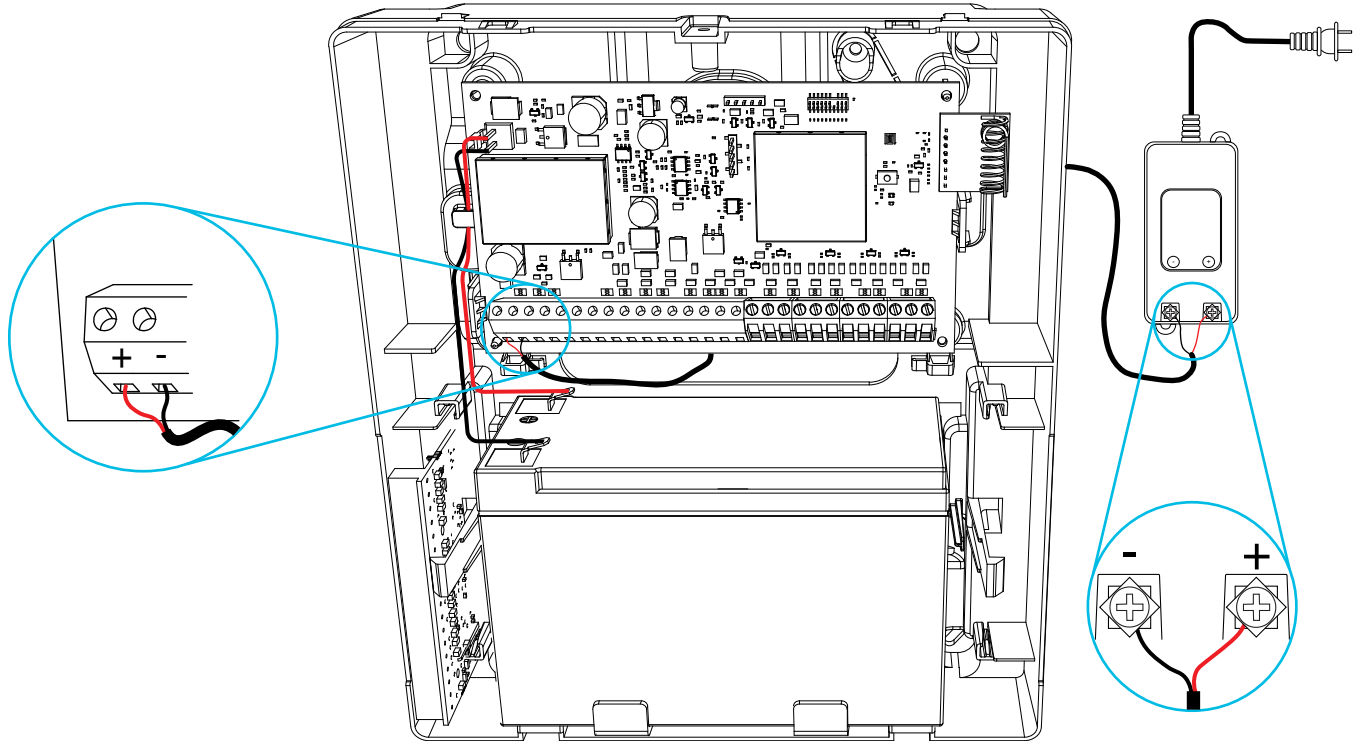
1. On the power supply, secure the wires to the terminals.
2. Insert the cable through the back of the enclosure.
3. Connect the wires to the 18 VDC terminals on the PCB.

Wiring the battery

To wire the battery, complete the following steps:

1. Connect the red battery lead to the positive terminals on the PCB and the battery.
2. Connect the black battery lead to the negative terminals on the PCB and the battery.

Figure 12: Wiring the battery



Important: You must maintain a minimum separation of 6.4 mm (0.25 in.) at all points between non-power limited battery wiring and all other power limited wiring connections. Do not route any wiring over circuit boards. You must maintain a minimum separation of 25.4 mm (1 in.) between all wiring and the PCB.

Enrolling the module

Before you enroll the module, ensure that all hardwired zones, PGM, AUX, and BELL are wired to the module.

To enroll the module, complete the following steps:

1. Enable enrollment through panel programming. For more information, refer to the *Qolsys IQPanel2 Installation Manual*.
2. Press the **Enroll** button on the PCB and release when the LED lights solid orange.
3. Confirm the correct module ID in panel programming.

Note: The module ID is on the module label. It is a seven digit number that identifies the device being enrolled. It has the format 460-XXXX.

Testing the module placement

To test the signal strength between the module and the alarm panel, complete the following steps:

- Press the **Enroll** button on the module.

After the placement test is complete, the color of the LED indicates the signal strength. For more information, see Table 10.

Table 10: Device signal strength

LED color	Signal strength
Three red flashes	Poor
Three orange flashes	Medium
Three green flashes	Strong

Note: For UL and ULC installations, only a strong signal strength is acceptable.

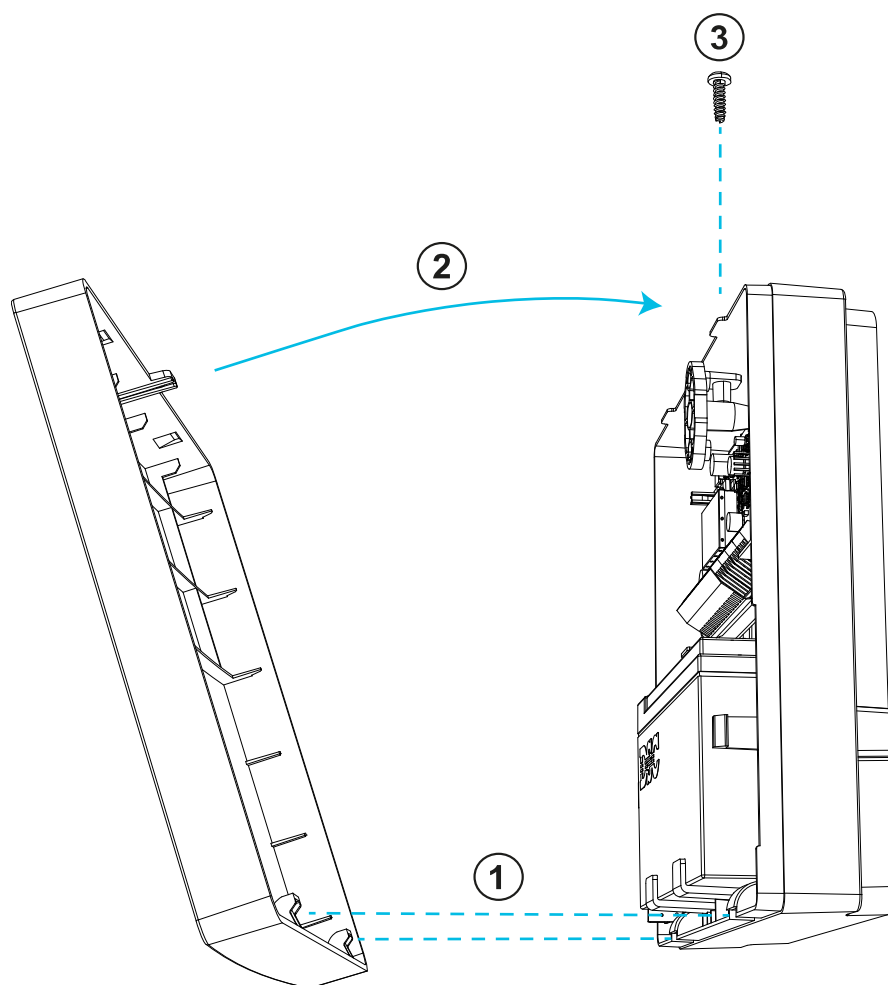
Enrolling wired zones automatically

When you successfully enroll the module to the control panel, eight hardwired zones are added to the control panel. The zones display on the control panel with the same ID as the module and zone label as the corresponding hardwired input. Enable and configure each zone input and PGM using the zone configuration options on the control panel.

Attaching the cover

To attach the front cover to the enclosure, follow the numbered steps in Figure 13.

Figure 13: Attaching the cover



Status LEDs

There is one multicolored LED on the module. The following table describes the status of the module based on the color of the LED.

Table 11: Status LEDs

Mode	Description
Turn on	The red LED is on while the module turns on.
Placement test	The color of the LED shows the signal strength of the enrolled device. For more information, see Table 10.
Firmware upgrade in progress	The red LED flashes every 800 ms while the system firmware updates.
Firmware upgrade failed	The red LED flashes every 120 ms if the firmware update fails.
Trouble	The orange LED flashes twice every 10 seconds if any troubles are detected, excluding a tamper trouble. Note: For detailed information on device troubles, see the control panel.
Device enrollment	The orange LED turns on when the enrollment button is pressed.
Device defaulting	The red LED turns on if the enrollment button is pressed and held for 10 seconds. Note: This defaults all module programming to factory settings.
Normal operation	The green LED flashes once every 10 seconds. The module is operating normally, with no troubles detected.

Troubleshooting

To perform a local update of the firmware, use DLS v5 or higher.

The status LED indicates if a trouble condition is present. You can view the trouble conditions in detail on the alarm panel.

The following table describes the trouble states that the module can detect.

Table 12: Troubleshooting

Trouble	Description
Loss of AC	Ensure that there is power to the module, and that the voltage is inside the 16 V to 20 V range.
Module tamper	Ensure that the back tamper plastic is in place and that the front cover of the enclosure is correctly secured.
Zone fault	Ensure that the zone is correctly wired and ensure that the zone EOL is correctly programmed.
Aux	Short or overload: There is a short or overload on the AUX terminals. Low voltage: The output voltage is below 9.8 V.
Low battery	The battery voltage is below the low battery threshold of 11.5 V.
No battery	There is no current detected on the battery terminals.
Bell circuit	The bell circuit is open. The load is less than 1 kΩ.

Note: When you configure PGM2 for use with a 2-wire smoke detector, any troubles detected show on the panel as a fire trouble.

FCC and ISED Canada Information

This information applies to model PG9WLSHW8.

Modification statement

Tyco Safety Products Canada Ltd. has not approved any changes or modifications to this device by the user. Any changes or modifications could void the user's authority to operate the equipment.

Tyco Safety Products Canada Ltd. n'approuve aucune modification apportée à l'appareil par l'utilisateur, quelle qu'en soit la nature. Tout changement ou modification peuvent annuler le droit d'utilisation de l'appareil par l'utilisateur.

Interference statement

This device complies with Part 15 of the FCC Rules and ISED Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'ISED 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.

Wireless notice

This equipment complies with FCC and IC radiation exposure limits set forth for an uncontrolled environment. The antenna should be installed and operated with minimum distance of 20 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Cet appareil est conforme aux limites d'exposition aux rayonnements de la IC pour un environnement non contrôlé. L'antenne doit être installée de façon à garder une distance minimale de 20 centimètres entre la source de rayonnements et votre corps. L'émetteur ne doit pas être colocalisé ni fonctionner conjointement avec à autre antenne ou autre émetteur.

FCC class B digital device notice

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: To satisfy FCC RF exposure requirements for transmitting devices, a separation distance of 20cm or more must be maintained between the antenna of this device and persons during device operation.

UL and ULC notes

The model PG9WLSHW8 has been listed by UL and ULC for commercial burglary and residential fire/burglary applications in accordance with the requirements in the Standards UL1610/UL1023/UL985 and ULC-S304/ULC-S545. For UL/ULC installations, use this device only in conjunction with compatible wireless receivers/control panels combination, model Qolsys IQPanel2.

Test the system weekly. Replace the standby battery every three to five years.

UL commercial and residential installation requirements and considerations

UL commercial, UL household, and ULC security level I burglar alarm unit

- Power supply model SOY-1800222-NA (PGWLSHW40A) shall be employed.
- At least one UL or ULC listed audible device rated to operate over the voltage range of 10.8 VDC to 12.5 VDC and rated 85 dB minimum.
- One compatible Qolsys IQPanel2 with PowerG modem card.
- All input zones shall be programmed as end of line supervised.
- Burglary initiating devices rated to operate over the voltage range of 10.8 VDC to 12.5 VDC.
- All intrusion zones shall be programmed as audible.
- The battery shall be used to provide a minimum back up power of four hours as per specific application requirements

UL and ULC household fire warning system

- Power supply model SOY-1800222-NA (PGWLSHW40A) shall be employed.
- 24 hour standby shall be provided.
- At least one UL or ULC listed 4-wire latching type smoke detector rated to operate over the voltage range 10.8 VDC to 12.5 VDC. A maximum smoke detector alarm load of 100 mA may be employed on the 2-wire smoke detector circuit.
- One DSC model RM-1 or RM-2 end of line supervision relay module.

- One UL or ULC listed audible device, rated to operate over the voltage range 10.8 VDC to 12.5 VDC, with a maximum current rating of 700 mA and rated 85 dB minimum as required for this application. The required bell cutoff time shall be a minimum of four minutes for UL and five minutes for ULC. The local audible devices shall be programmed to sound in a Temporal 3 pattern.
- Model EOLR 2 end of line resistor.
- For UL household fire warning systems, the fire alarm detection devices shall not be powered from the same AUX output as burglary alarm initiating devices.

European CE Compliance and CERTALARM Certification

This information applies to model PG8WLSHW8.

According to EN50131-1, this equipment can be applied in installed systems up to and including Security Grade 2, Environmental Class II.

UK: The PG8WLSHW8 is suitable for use in systems installed to conform to PD6662:2017 at Grade 2 and environmental class II. BS8243:2010 + A1:2014.

The PowerG 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.

The Model PG8WLSHW8 Wired to Wireless Converter has been certified by Telefication according to EN50131-1:2006+ A1:2009, EN50131-3:2009, EN50131-5-3:2017, and EN50131-6:2017 Type A for Grade2, Class II.

Simplified EU declaration of conformity

Hereby, Tyco Safety Products Canada Ltd declares that the radio equipment type is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: www.dsc.com

868 MHz model: <http://dsc.com/pdf/2001001>

Frequency band (MHz)	Maximum power (dBm/ mW)
868.0 to 868.6	12/ 15
868.7 to 869.2	12/ 15

European single point of contact: Tyco Safety Products, Voltaweg 20,6101 XK Echt, Netherlands.

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