

AMBIENT ACN-MLM Lockit Module Owner's Manual

[Home](#) » [Ambient](#) » AMBIENT ACN-MLM Lockit Module Owner's Manual 



PG8932/PG9932 wireless heat detector Installation and operating instructions

Read this instruction sheet thoroughly before installation and use of the PG8932/PG9932

Contents

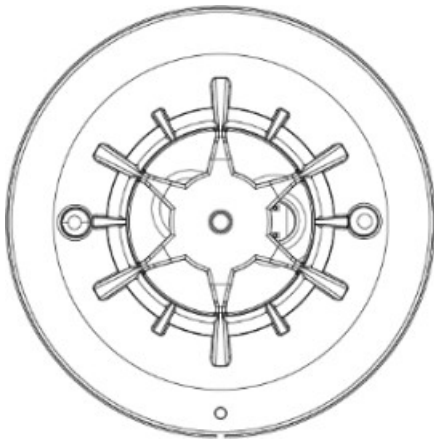
- [1 Introduction](#)
- [2 Operation](#)
- [3 Wireless transmissions](#)
- [4 Installation instructions](#)
- [5 Owner's Instructions](#)
- [6 Specifications](#)
- [7 LIMITED WARRANTY](#)
- [8 END-USER LICENSE AGREEMENT](#)
- [9 LIMITED WARRANTY](#)
- [10 Documents / Resources](#)
- [11 Related Posts](#)

Introduction

The PG8932/PG9932 is a wireless heat detector with a fixed temperature, a rate of a rising heat sensor, and an internal piezoelectric alarm. The detector is available in 915 and 868 MHz versions. Only Model PG9932

operating in band 912-919MHz is UL/ ULC listed. Model PG8932 operating in 868MHz band is CE and UKCA compliant.

Compatible devices



Model PG9932 is compatible with UL/ULC listed control panels
DSC/Tyco models: HS2128, HS2064, HS2032, HS2016, HS3248, HS3128, HS3032 when using RF Transceiver HSM2HOST9 or Keypads with integral transceiver HS2LCDRF(P)9, HS2LCDRFPRO9, HS2LCDICNRF9(P) and Qolsys IQPanel2, IQHub, IQPanel4.

Operation

During normal operation, the green LED flashes every 12 seconds.
The detector goes into alarm when the heat level exceeds 135 °F / 57.5 °C and automatically restores when the heat level falls below the threshold. The detector also goes into alarm when the temperature rapidly increases over a short period of time. During an alarm, the LED flashes once per second and the sounder emits the evacuation temporal pattern.

Detector trouble

If the detector has a general fault, the yellow LED blinks once every four seconds and the detector emits a chirp every 48 seconds. After four hours, the panel displays a fire trouble message.

Table: Detector and Status Indication

Status	LEDs	Sounder
Normal	Green flash every 12 seconds	Off
Heat Alarm	Red flash every 1 second	ANSI S3.41 temporal 3
Heat Test	Red flash every 1 second	ANSI S3.41 temporal 3
Test Alarm (button press)	Red flash every 1 second	ANSI S3.41 temporal 3
Detector Trouble	Yellow flash every 4 seconds	One chirp every 48 seconds
Low Battery	Yellow flash every 12 seconds	One chirp every 48 seconds (press button to hush for 12 hours)
Power-up	Red, yellow, green, flash sequence	One chirp at the end of the power-up sequence
Tamper	Red, yellow, green flash sequence every 12 seconds	Off

Wireless transmissions

A supervisory message is transmitted at 128 s intervals. If the signal is not received, the control panel determines that the detector is missing.

The detector transmits the following:

- Idle (normal operation): The detector is in a normal state without any faults or alarms.
- Operating temperature: 32°F to 100°F (0°C to 37.8°C)
- Heat Alarm: Active when the detector is above 135°F (57.5°C) or the rate of rising of temperature is above 15°F/min (8.3°C/min).
- Tamper / Tamper Restore: (tamper switch activated) ten-second maximum delay on restore before transmission.
- Low battery pre-warning: Low battery state is sent to the panel.
- Low Battery: (battery voltage falls below a threshold). Low Battery Trouble is indicated on the detector by LED flash and chirp and sent to the control panel.
- Detector Trouble: Troubles are transmitted at the time of occurrence (one trouble per supervisory interval).

Tamper

Removing the detector from the mounting plate initiates a tamper transmission. The tamper condition is restored after the detector is mounted on the plate.

Battery

The wireless heat alarm is powered by a CR123A or DL123A battery. The detector periodically checks for a low battery. If a low battery is detected, the detector sends a message to the control panel, which indicates which detector has a battery. In addition, the yellow LED of the detector flashes every 12 seconds. The detector's sounder chirps every 48 seconds and the yellow LED continues to flash until the battery is replaced. Pressing the test/hush button silences the chirps for twelve hours if no other trouble conditions exist. The battery should be replaced with a new battery when the chirps begin. At low battery, the test button is disabled.

NOTE: If the alarm does not sound, contact the installer or dealer for service.

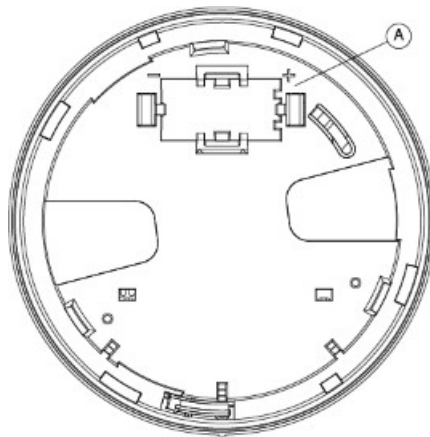
Battery Installation and replacement

CAUTION: Risk of explosion if the battery is replaced with an incorrect type. Dispose of the used battery according to the manufacturer's instructions.

A: Battery compartment

To replace the battery, complete the following steps:

1. Twist the detector counterclockwise to remove the detector from its mounting base. To remove the battery, carefully lift it from the + end using a flathead screwdriver.
Dispose of the battery according to local regulations.
2. To ensure a proper power-down sequence, wait a minimum of 30 seconds before installing the new battery.
3. Insert a new CR123A or DL123A battery, available from a local Panasonic or Duracell dealer, in the battery compartment (A). Insert the – end of the battery first. If the battery is incorrectly inserted, carefully remove and correctly re-insert it following the procedure described in step 1.
4. To re-install the detector on its mounting base, turn the detector clockwise until the mating marks align.
5. After the power-up sequence, the green LED blinks twice every 12 seconds to indicate normal operation.
If the battery is not installed correctly, the detector will not operate, and the battery may be damaged. If the detector does not power up, check that the battery is installed correctly and fully charged.



6. Test the detector as described in this document.

CAUTION: CONSTANT EXPOSURES TO HIGH OR LOW TEMPERATURES OR HIGH HUMIDITY MAY REDUCE BATTERY LIFE.

Installation instructions

Select an accessible location that is not prone to tampering or accidental damage. The heat detector must be installed and maintained in accordance with the National Fire Protection Association's Standards (NFPA 72), the National Electrical Code, and all local fire and electrical requirements. The mounting surface should be relatively flat and capable of accepting screws or anchors. The detector is to be installed in an indoor dry location. Exposure to weather or corrosive conditions may damage the unit. These detectors are not to be used with detector guards.

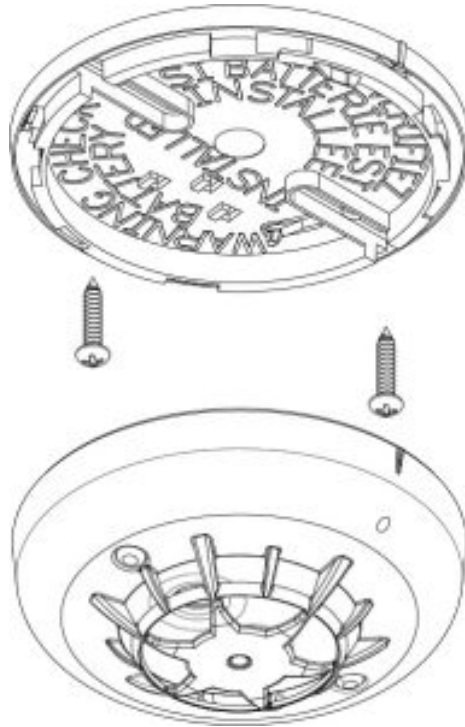
Do NOT Install Detectors in the Following Areas:

In or near areas where particles of combustion are normally present such as kitchens; in garages; near furnaces, hot water heaters, or gas space heaters. In very cold or very hot areas. In wet or excessively humid areas, or next to bathrooms with showers. In dusty, dirty, or insect-infested areas. Near fresh air inlets or returns or

excessively drafty areas.

Consult NFPA 72, the local Authority Having Jurisdiction (AHJ), and/or applicable codes for specific information regarding the spacing and placement of detectors.

The PG8932/PG9932 wireless heat detector shall be installed and used within an environment that provides the pollution degree max 2 and overvoltages 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).



Mount detector backplate

NOTE: The detector should only be installed by a service person.

Once a suitable location is found, mount the detector backplate. Install the mounting base on the ceiling or on the wall (if local ordinances permit) using screw locations as required.

Use the two screws and anchors provided. Maneuver the base so the screws are at the end of the screw slots and secure.

Mounting

Fit the detector inside the base by aligning it over the base. The detector's alignment notch should be slightly offset from the mounting base tamper release tab. Turn the detector clockwise until it clicks into place. To activate the built-in anti-tamper lock, carefully remove the breakaway tab on the backplate.

Device Enrollment

The device automatically enrolls on power-up. For placement tests, remove the detector from its backplate for one second (tamper) and then reattach. Wait at least 30 seconds for the test result before activating again.

To enroll the device, complete the following steps:

1. Refer to the control panel installation manual for the complete set of enrollment instructions and testing procedures.
2. From the installation menu, enter the device enrollment option and select the option to add a new device.
3. Pull the enrollment tab or insert the battery to power on the device and begin the autoenrollment process. You can also enter ID:203-xxxx (the number of the device that is printed on the label) or press the power button on the detector to begin the enrollment process if the device does not automatically enroll.

4. The first 3 digits of the Device ID indicate the device type. If the panel does not support ID: 203-XXXX, it enrolls in fall back operation as Smoke and Heat detector, ID:202-XXXX.
5. Select the desired zone number.
6. Configure any device parameters that are required.
7. Mount and test the detector.

Test the detector

NOTE: Notify the central monitoring station, if used, prior to testing. This prevents a false alarm and an unnecessary response from the central monitoring station. To test the detector only, press and hold the Test button for 4 seconds. The sounder chirps to indicate that the unit is functioning properly. When the button is released, the chirping ceases.

To test end-to-end communication from the detector to the control panel to the monitoring station, press and hold the Test button for 10 seconds. An alarm signal is sent to the control panel.

NOTE: Allow a minimum of 20 seconds after power-up and after test, alarm or tamper restore activations.

NOTE: The detector will not enter an alarm state when there are internal faults that could prevent an alarm.

Owner's Instructions

Testing the detector

Follow the test procedure described here or contact your dealer or installer for testing instructions. It is recommended to test the entire alarm system at least once a week to verify the operation of all system functions.

Detector test

To test the detector only, press and hold the Test button for 4 seconds. The sounder chirps to indicate that the unit is functioning correctly. When the button is released, the chirping ceases. If this does not occur, ensure the battery is the correct type, in good condition, and installed correctly. To test the detector and the alarm panel together, press and hold the Test button for more than five seconds. An alarm signal is sent to the control panel.

Detector diagnostic test

Before you test, complete the following steps:

1. Insert the battery and then mount the detector on the backplate.
2. After the battery is inserted, wait two minutes before testing. The detector enters into Local Diagnostic Test mode for 15 minutes.
3. For PowerMaster panels, it is recommended to perform the Periodic Test and use either the Installer code (Installer Diagnostic mode) or the User code (User Diagnostic mode) to test.

CAUTION: The diagnostic test cannot be performed when the tamper is open.

To perform a detector test, press and hold the Test button for 4 seconds. When the button is released, the red LED flashes, followed by two loud alarm beeps.

In test mode, the detector tests heat and battery functions.

If the detector is in diagnostic mode, the detector performs the diagnostic test as described below.

Diagnostic test

The following sequence of events occur during a diagnostic test:

- A. The detector performs a link quality test.

Note: The detector must be in local or diagnostic mode to perform the link quality test.

In diagnostic mode, if you press the Test button for more than 10 seconds, an alarm message is sent to the panel and a Temporal-3 alarm signal is sounded. After this sequence is completed, the device enters Alarm in Memory mode. To preserve battery life, the device clears the indication after 30 minutes if it has not been cleared on the panel.

B. If you press the test button for 4 seconds and then release it, at the end of the diagnostic test the LED blinks three times. The following table indicates the received signal strength.

LED Response	Green LED flashes	Orange LED flashes	Red LED flashes	No flashes
Reception	Strong	Good	Poor	Paired, no communication

IMPORTANT! Reliable reception must be confirmed. Therefore, poor signal strength is not acceptable. If you receive a poor signal from the device, re-locate it, and re-test until good or strong signal strength is received. See the alarm system installation manual for detailed diagnostic tests. For UL/CUL installations, the test results must be strong.

Owner's Maintenance

This detector is designed to require minimal maintenance. If the plastic housing is greasy, wipe gently with a soft cloth slightly dampened with soapy water.

Never disassemble the detector; there are no user-serviceable parts inside the unit.

You may only remove the backplate to replace the battery if not serviced by an installer. When replacing the battery, follow the instructions specified in the Installation Instructions.

Never paint the detector. Paint may interfere with the proper operation of the detector. If you are planning renovations or repainting, take precautions to avoid dust, paint, or chemical contamination of the detector.

Installation, testing, and maintenance procedures shall be in accordance with NFPA72, CAN/ULC-S524, and CAN/ULC-S536 CAN/ULC

Specifications

- Regulatory Listings: FCC/ISED Canada/CE; UL521/ULC-S530
- Diameter: 5 in (127 mm)
- Height: 2 in (50.8 mm).
- Weight (including battery): 7 oz (198.4 g)
- Color: White
- Audible Signal (ANSI Temporal 3): 85 dBA at 10 feet (3.05 m) minimum in alarm
- Heat Alarm Threshold: 135 °F (57.5 °C)
- Humidity: 5 % – 93 % RH, non-condensing
- Voltage: 3V DC
- Approved Batteries: One battery: Panasonic CR123A or Duracell DL123
- Supervisory Transmission Frequency: 128 s intervals

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Regulatory Information

The PG8932/PG9932 wireless heat detector has a recommended service life of 10 years under normal conditions of use. Please refer to the label applied to the device indicating the recommended replacement year.

This manual shall be used in conjunction with the Installation Manual of the alarm control panel. All the instructions specified within that manual must be observed.

CE compliance

Frequency band	Maximum power
868.0 MHz – 868.6 MHz	14 mW / 11.46 dBm
868.7 MHz – 869.2 MHz	14 mW / 11.46 dBm
912 MHz – 919 MHz	14 mW / 11.46 dBm

Hereby, Tyco Safety Products Canada Ltd. declares that the radio equipment type PG8932 wireless heat detector is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: <http://www.dsc.com/>.

NOTE: FCC statement only applies to 915MHz version

FCC 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. Digital Security Controls 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.

FCC AND ISED CANADA INTERFERENCE STATEMENT

This device complies with Part 15 of the FCC Rules. 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. This device complies with 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.

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 experienced radio/television technician for help.

The PG9932 has been listed by UL/ULC for residential fire applications in accordance with the requirements in the Standard UL985/ULC-S545 when used in conjunction with compatible panels identified in this manual.

CAN ICES-3 (B) / NMB-3 (B)

This equipment complies with FCC and ISED Canada radiation exposure limits set forth for an uncontrolled environment. The antenna should be installed and operated with a minimum distance of 20 cm between the radiator and your body.

Toronto, Canada


• www.dsc.com

• Tech. Suporte: 1-800-387-3630 (Canadá, EUA), 905-760-3000

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D-308433 PG8932/PG9932 Wireless Heat Detector



Documents / Resources

 A photograph of a blue printed circuit board (PCB) for the LockitModule ACN-MLM. The board has various electronic components, including a large integrated circuit, resistors, and capacitors. It has a gold-plated edge connector. The text 'LockitModule ACN-MLM' and 'Ambient' are visible on the board.	<p>AMBIENT ACN-MLM Lockit Module [pdf] Owner's Manual LM, PDZ-LM, PDZLM, ACN-MLM, Lockit Module</p>
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