

Installation Instructions



Before you begin

Before installing the GP-IO-332, configure it according to the instructions in the Geopoint Hub and I/O Installation and Operation Guide (LT-GPIOG) available on the Alerton Support Network.

Overview

Warning! Always install equipment in accordance with the instructions and in a manner consistent with electrical codes and the authority having jurisdiction. Read all instructions before mounting and wiring.

ATTENTION! Installez tout le matériel en conformité avec le Code national de l'électricité et d'une manière acceptable pour l'autorité locale compétente. Lisez tout instructions avant l'installation du matériel. Le non respect des instructions peut entraîner des dommages matériels ou une situation dangereuse.

The GP-IO-332 is a wireless device that eliminates the need for long cabling between a unitary controller and its physical I/O. Its multiple inputs and outputs can be concentrated onto the BACnet bus by the GP-HUB-100 receiver. These instructions will help you mount and wire the device and then verify that it functions correctly.

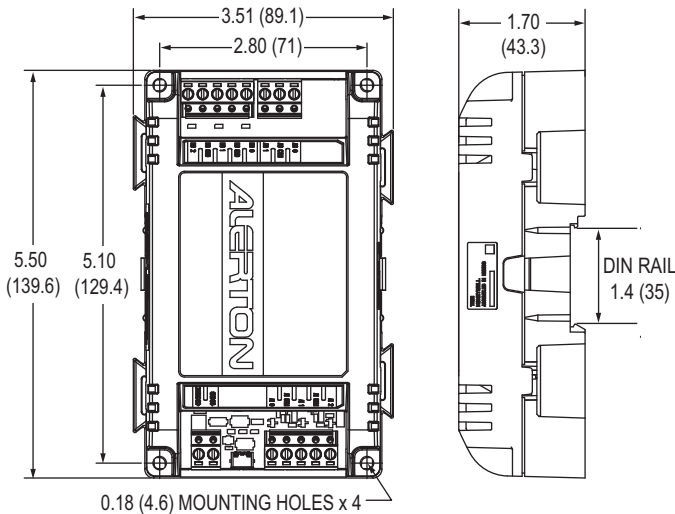


Fig. 1 GP-IO-332 dimensions in in. (mm).

Note The GP-HUB-100 signal receiver has the same dimensions and mounting holes as the GP-IO-332.

Specifications

Supply Voltage: 24VAC (typical), 50/60Hz. 5VA (max)
Operating Temperature: -18°C to 70°C (0°F to 158°F)
Operating Humidity: RH 5% to 95%, non-condensing
Storage Temperatures: -40°C to 70°C (-40°F to 158°F)

Mounting

Choose a mounting location that reduces interference between the GP-IO-332 and the GP-HUB. Some points to consider when selecting a location:

- ◆ The effective communication range is 400 feet through open air and 100 feet through two non-metallic walls.
- ◆ Any metal (ducting, equipment, metal studs, and so on) near the device or between two devices will impede radio waves.
- ◆ If a wall has metal components (studs, ductwork, and so on) radio waves will tend to travel along the plane of the wall. Mounting the device on the same wall as other device(s) will increase signal strength.
- ◆ When mounting near ductwork or other metal, use doublesided tape to mount the device while testing radio reception.
- ◆ Mount the GP-IO-332 indoors or in a weatherproof enclosure.

Important! Enclosures, if used, must not block 2.4GHz RF. Use polyester/fiberglass models. If unsure, consult the manufacturer.

DIN rail mounting

- **To mount the GP-IO-332 on a 35mm DIN rail**

- 1 Hold the device with its top tilted toward the DIN rail and then hook the two top tabs on the back of the device onto the top of the DIN rail.
- 2 Push down and in to snap the connector onto the rail.

To remove the GP-IO-332 from a DIN rail, push straight up from the bottom to release the top tabs and then pull the top of the device outward.

Wall mounting

To mount the GP-IO-332 on a wall, position the device in any orientation and secure it to the wall with size 6 or 8 screws appropriate for the mounting surface.

Wiring

Once the GP-IO-332 is mounted, connect the power.

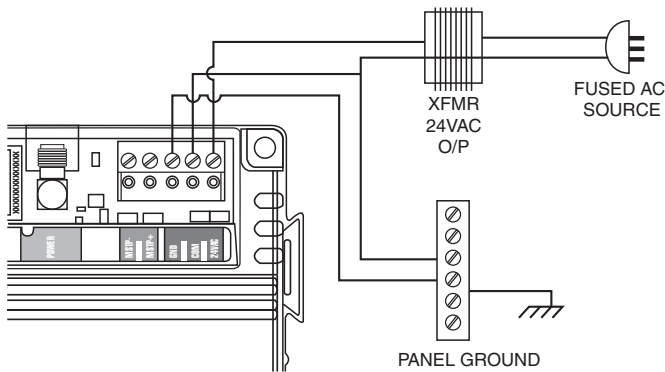


Fig. 2 Wiring diagram.

Connecting power

Connect the GP-IO-332 to 24VAC power from a UL Listed Class-2 24VAC transformer (not included). You can use the same transformer for the GP-HUB-100 and other associated controller(s) as long as the total load does not exceed 100VA and all devices are half-wave. The GP-IO-332 is a half-wave device.

CAUTION! Half-wave devices and full-wave devices must not use the same AC transformer. You must maintain wiring polarity. Failure to do so can result in equipment damage.

ATTENTION! Les dispositifs demi-onde et les dispositifs à onde pleine ne doivent pas utiliser le même transformateur AC. Le défaut de maintien de la polarité du câblage peut endommager l'équipement.

USB Power

The GP-IO-332 can also be powered from a USB cable that provides 5VDC power. Some USB ports can supply sufficient power and some can not. Review the user documentation for the power source to determine whether the USB port supplies sufficient power.

DIP Switches

The GP-IO-332 has two banks of DIP switches. The first, 6-position switch, sets the network address for the wireless network (must match GP-HUB-100). The second, 8-position switch, is used to set the Remote Device address (0-99) that the device will use when connecting to the Hub.

The RSSI LEDs also flash to indicate error conditions.

Table 1 RSSI Error Conditions

Flash Pattern	Status
One red	No communication or the device has not joined the wireless network
One yellow and two green	Wireless network MAC address does not match device type
Two green	Multiple devices have identical wireless network MAC addresses
One red and one green	Lost communication with GP-HUB-100. Working to re-establish connection.
One flashing red and two solid green	Device initialization in progress



Fig. 3 Locations of GP-IO-332 components.

Notice

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. To comply with the FCC RF exposure compliance requirements, this device and its antenna must not be co-located or operated in conjunction with any other antenna or transmitter.

CAN RSS-Gen/CNR-Gen Canadian conformance statements

This device complies with Industry Canada license-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'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.

FCC & IC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment and meets the exemption from the routine evaluation limits in section 2.5 of RSS 102.

