

FCC and Canada Compliance Information

This device complies with Part 15 of the FCC Rules and with Industry Canada license-exempt RSS standards. 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. Changes or modifications not expressly approved by Enlighted Inc. could void the user's authority to operate the equipment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

This radio transmitter IC: 10138A-GW2 has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Le présent émetteur radio IC: 10138A-GW2 a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal et l'impédance requise pour chaque type d'antenne. Les types d'antenne non inclus dans cette liste, ou dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

CE

This device complies with the essential requirements and other relevant requirements of the R&TTE Directive (1999/5/EC). The product is compliant with the following standards and/or other normative documents - EN 62479, ETSI EN 301 489-1-17, EN 300 328 and EN 60950-1

- The equipment is Class 1 radio equipment which can be placed on the market and be put into service without restrictions in accordance with article 1(3) of Commission Decision 2000/299/EC (Version July 2014).



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Technical Support

For questions regarding the installation or operation of this product, contact Enlighted
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Model: GW-2-01
FCC ID: AQQ-GW2
IC: 10138A-GW2



Gateway (GW)
Model GW-2-01
Installation Instructions

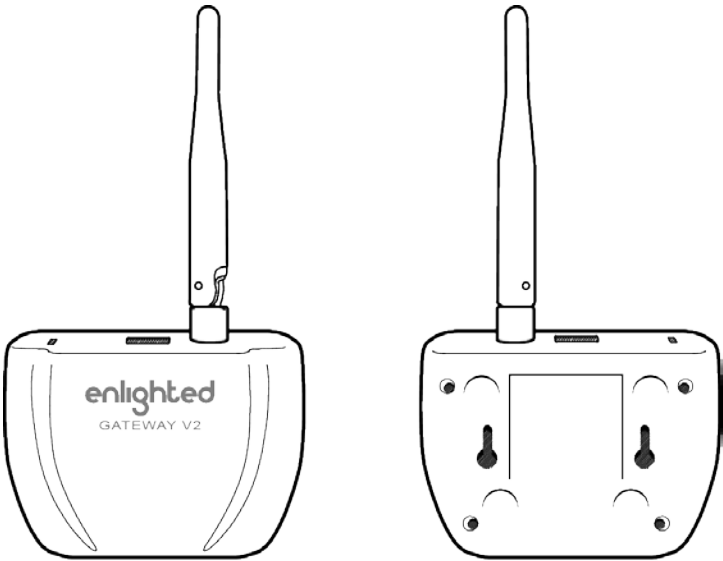


Figure 1: Gateway Unit (front and back)

Shipped Components

- Enlighted Gateway
- Two #6 - 1" screws with standoffs
- Antenna: Nearson S151AH-07826 2.4GHz Swivel Antenna with 5dBi, 50 Ohm

Tools You May Need

- #2 Philips screwdriver

Supplies You May Need

- Cat-5e or Cat-6 data cable with RJ45 (conforming to TIA/EIA 568-B) connectors between the gateway (GW) and PoE Ethernet switch

Caution

- Disconnect all power before installation or service.
- Installation and maintenance must be performed by a qualified electrician in accordance with local, state, and national electrical codes (NEC) and requirements.

Installation Steps (both wall & ceiling mounts)

Step	Description
1	Determine a location for the GW. The Cat-5e or Cat-6 data cable from the PoE Ethernet switch MUST be less than 300 feet. Ideally, the GW will be at the same elevation as the sensors it communicates with. It MUST be visible so that it's LEDs can be seen for troubleshooting. Because it uses wireless communication with sensors, it SHOULD be placed to maximize the number of sensors that are near it.
2	Select a location for the RJ45 connector (conforming to TIA/EIA 568-B) of the data cable to exit the wall or ceiling. Make a small circular cut (roughly 11/16 th of an inch in diameter) in the wall or ceiling for the RJ45 connector.
3	Install the two #6, 1" screws two inches apart.
4	Slide the GW onto the screws as shown in Figures 2 and 3.
5	If on the wall, point the antenna straight up. If on the ceiling, point antenna straight down.
6	Insert the RJ45 connector on one end of the data cable into the GW.
7	Route the data cable to the PoE Ethernet switch and insert the RJ45 connector into a powered PoE port (see Figure 4).
8	Power on the PoE Ethernet switch and check for the "PoE Active" LED to be green for the port connecting the GW.

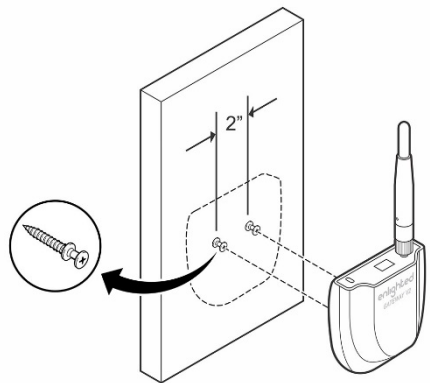


Figure 2: Attach the unit to the wall on screws with the antenna pointing up

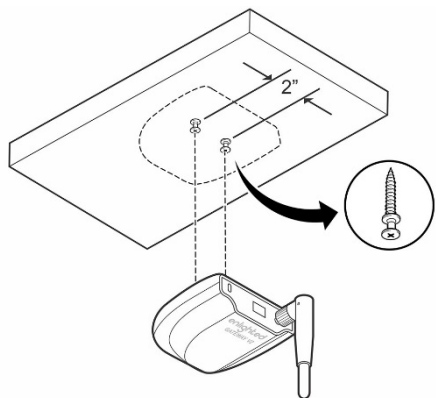


Figure 3: Attach the unit to the ceiling on screws with the antenna pointing down

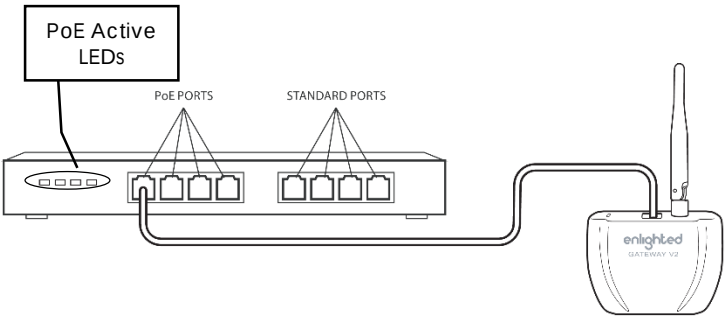


Figure 4: Wiring Diagram for PoE switch and GW

Troubleshooting

Problem	Solution
No LED on the Gateway (GW) is on or blinking.	• Verify the Cat-6 cable between the PoE port on the Ethernet switch and the Enlighted Gateway has not been damaged. • Check that the RJ45 connectors on each end of the Cat-6 cable are completely inserted. • Verify that the PoE Ethernet switch is powered and functioning properly.
Red LED on the GW is on continuously.	Replace the Gateway.
Red LED on the GW is blinking at a slow rate and the green LED is off.	This is the expected blink pattern before the Energy Manager is connected to the PoE Ethernet Switch and made operational.
Red LED on the GW is off and the green LED is blinking rapidly.	This is the expected blink pattern after the Energy Manager is connected to the PoE Ethernet Switch and made operational, and before the GW is commissioned.

Note: After a Gateway has been commissioned, the red LED is off and the green LED blinks at a slow rate.