



Prerequisites for Installing a Gateway

IMPORTANT: This document provides guidelines for the proper placement and installation of Gateways and the antennas. Failure to follow the information in this guide can result in incorrect installation, poor system performance, and damage to the system.

1. Gateways enclosures are designed to be mounted on a wall or pole on a rigid surface using screws usually mounted up-to 5-6 feet height of a nearby structure with a clear line of sight over the sensor deployment area.
2. Gateways **require a 5-30V DC power supply**. If using an AC to DC adapter, use an SMPS power supply. The SMPS should be powered by a **UPS back-up**.
3. It requires either an Ethernet **Cable connection, 2.4Ghz Wi-Fi signals or a good quality cellular signal** for ioEYE cloud access
4. The antenna provided with the Gateway is intended to be mounted directly on the Gateway enclosure. It must not be connected to the Gateway using any cabling.
5. If deploying a Gateway in a location where the entire enclosure cannot be suitably mounted for a clear line of sight over the sensor deployment area, an external Antenna would be needed to mount the antenna separately from the enclosure.
6. Do not cut any excess cable length. This would require replacing the factory termination, which is not recommended. Coil excess cable in large loops and tie it down safely
7. **Complete solution:** External enclosure, power supply unit, power cables, antennas and optionally with mounting screws.
8. It is recommended not to Install Gateway near **High Tension Electrical Wires** and always maintain at least 2-3 feet Safe Distance From High Tension Electrical Wires
9. Gateway housing needs to be placed in a location that is accessible to service personnel.
10. Do not use any third party antenna. **Use only antennas provided by SenseGrow**
11. The Gateway installation must meet or exceed the requirements listed below:

Environment (Temperature)	-20°C ~ +70°C (Working) -25°C ~ +75°C (Storage)
Power Source (DC)	Standard 5-30V DC SMPS Power supply
Mounting Base	Flat and Rigid Mounting Base

Antenna Placement

****Recommended Before Installation:**

Before any antenna installation, an **RF survey should be performed**.

To assure that there is appropriate coverage for communication with the controllers.

To assure there is no RF interference. If you do not perform an RF survey, you risk finding out after your installation that due to interference, you have a reduced ability to communicate with the installed Sensors.