

Weather Station Monitoring

The Sensor Hub is a modular sensor ecosystem consisting of a main unit and various pre-configurable sensor probes. **The system supports pluggable and interchangeable probes and allows for the integration of third-party sensors.** These features make the Sensor Hub an ideal and flexible platform for a wide range of IoT applications that require environmental monitoring.

The Sensor Hub is housed in a robust and waterproof enclosure equipped with two (2) sensor probe ports, which can be used either for connecting sensors or for an external power source, such as a solar panel. The device **can operate on external power or in full battery mode**, depending on the installation context.

With the Sensor Hub in weather station configuration, it is possible to monitor outdoor environmental parameters.

The weather station is equipped with high-precision sensors capable of measuring wind speed and direction, atmospheric pressure, humidity, and temperature. Data is sent via the cellular network or, alternatively, via an 868 MHz network.

The system can be made independent through the use of a photovoltaic panel and related battery (optional).



KEY POINTS

1

Monitoring of temperature, humidity, wind speed, and atmospheric parameters

2

Two sensor probe ports

3

868 MHz or 4G network

4

External, battery, or photovoltaic panel power supply