

Sensor Hub Industrial-grade 4G Data Logger with MODBUS-RTU RS485 protocol - DC Only



Features

- Support collection of various environmental data simultaneously
- Support local storage of data when there is a bad connection, and uploading to the server when the network resumes
- Support using with standard MODBUS-RTU RS485 sensors
- Support uploading data to any server (SenseCAP Server / User's private server)
- Support 4G/3G/2G communication, supporting global LTE frequency band
- Built-in GPS positioning function
- Support remote upgrade and maintenance
- Power supply options: (1) DC only, (2) Solar System (to be purchased separately)
- Easy to install and deploy, without requirements of engineering background
- Industry standards, suitable for harsh outdoor environments

SenseCAP Sensor Hub is a powerful 4G data logger that can connect to a maximum of 32 RS-485 sensors. It is designed with industry standards, robust and stable. IP66 rated, waterproof and dustproof, it is highly suitable for long-term remote environmental monitoring in outdoor application scenarios.

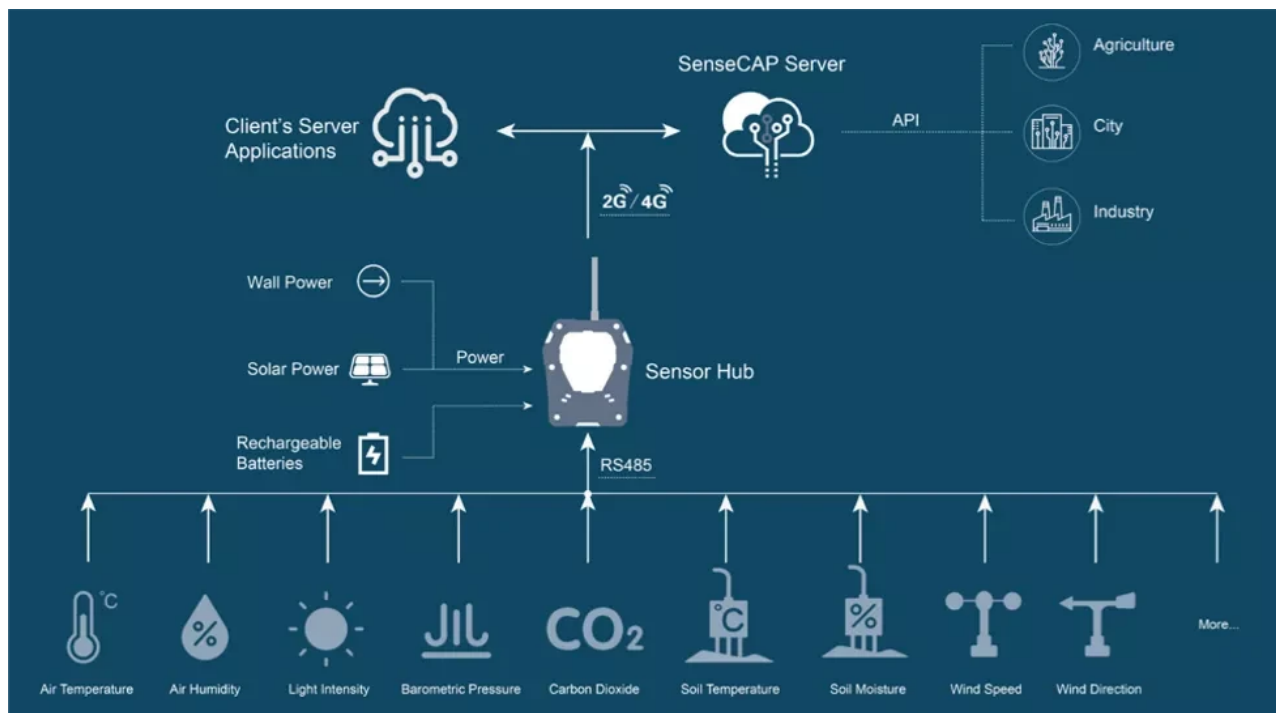
Sensor Hub is available in two versions:

(1) DC only version (This version can work with a solar system. Please kindly note it should be connected with the whole solar system, not just a solar panel)

(2) with a built-in rechargeable battery version (This version can be used with either DC power, or with a solar panel (to be purchased separately, coming soon).

Sensor Hub Data Logger is an easy-to-deploy 4G cellular station. It uses the MODBUS-RTU RS485 protocol to communicate with sensors and is able to collect various sensor data simultaneously.

Sensor Hub consists of 4 RS485 data channels. With extension hubs / RS485 splitters, it can connect with a maximum of 32 sensors at one time. The data is collected and sent to the cloud (either to the SenseCAP server or the client's private server) via 4G/3G/2G (as shown below).



(SenseCAP Sensor Hub system architecture)

Designed with industry standards and IP66 rated, Sensor Hub is suitable for outdoor and harsh environments, resistant from UV, rain, and dust, etc. GNSS is embedded for location tracking.

Sensor Hub is also equipped with 10MB onboard memory, to store more than 700,000 measurements locally in case of a bad connection.

For the DC-only version, if there is a power outage, Sensor Hub won't be able to store the data. Please consider choosing the version with the built-in battery if there are concerns about a power outage in your application. With the built-in battery, the device can continue working with power from the battery. If you choose the DC-only version, you can also consider using it with a solar system (to be purchased separately.)

Designed with an easy-to-deploy mindset, Sensor Hub can be deployed and set up within a few minutes. It is fit for both pole and wall mount.

We also provide software and cloud services for quick configuration, making it easy to deploy Sensor Hub and manage devices and data:

SenseCAP Portal is a web-based platform for you to manage the devices, data, and access key conveniently.

SenseCAP App (with iOS and Android) is provided for you to bind the devices to your account conveniently.

SenseCAP API is provided for you to simplify the implementation of your applications.

SenseCAP Dashboard allows you to create your own visualized application conveniently.

SenseCAP Sensor Hub 4G Data Logger can work with any sensors that support MODBUS-RTU RS485 protocols. And we also provide a wide range of industrial-grade RS485 sensors for your selections. These sensors all come with waterproof aviation connectors, you can plug them into Sensor Hub within seconds to make it work, [check the sensors out now](#).

Applications

Smart Agriculture

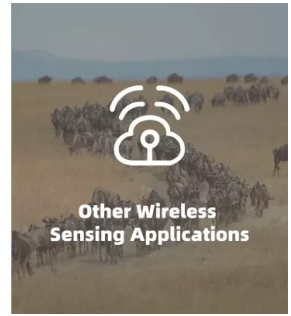
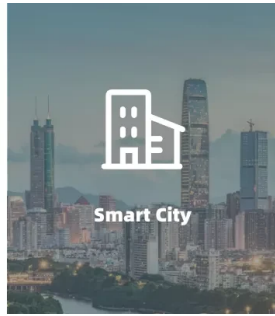
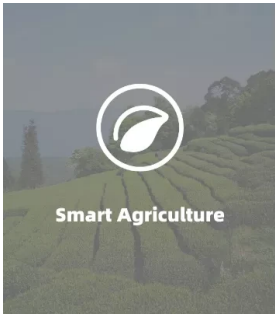
Smart City

Smart Buildings

Smart Industry

Environmental Monitoring

Other wireless Sensing Applications



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