

EasySense

EasySENSE 2G/4G NB-IoT gateway

EasySense is an IoT gateway with a **2G-4G** and **NB/IoT module** that aims to collect data from sensors devices and send them to the Cloud. It is the ideal solution for all those applications that require installation in harsh environments or with poor network coverage. It is versatile and easy to use.

Interfacing with the most popular Clouds, such as Microsoft Azure and Amazon AWS, via the MQTT protocol, allows easy integration with the main web-based solutions.

It is **battery-powered** and has built-in **digital and analog I/O**.

It can also communicate with other devices thanks to the RS485 serial interface and protocols such as ModBus.

EasySense has built-in WiFi/Bluetooth and NFC modules that ensure quick and easy setup.

Features

1. 2G/4G NETWORK (LTE Cat.M1) AND NB-IoT
2. PLUG & PLAY
3. CONFIGURABLE VIA APP AND NFC
4. ROBUST
5. IP67 WATER RESISTANT
6. BATTERY POWERED



General features

- RS485 port 1200-115200bps
- DIN rail support (4 modules)
- Front signal LEDs
- Dimensions 170 x 130 x 45 mm
- Working temperature -20°C +60°C
- CE certification (EN 61000-6-2, EN 61000-6-4 standard)

Modem

- LTE Cat M1/ NB1(NB-IoT) Fallback GSM/GPRS
- Integrated SIM card module

I/O

- 2 software-configurable analog inputs 0-10V/0-5V, 4-20mA, PTC/NTC, Pt100 (Left side)
- 3 digital dry contact / counter inputs (Right side)
- 2 latching relays (Right side)

Electrical Characteristics

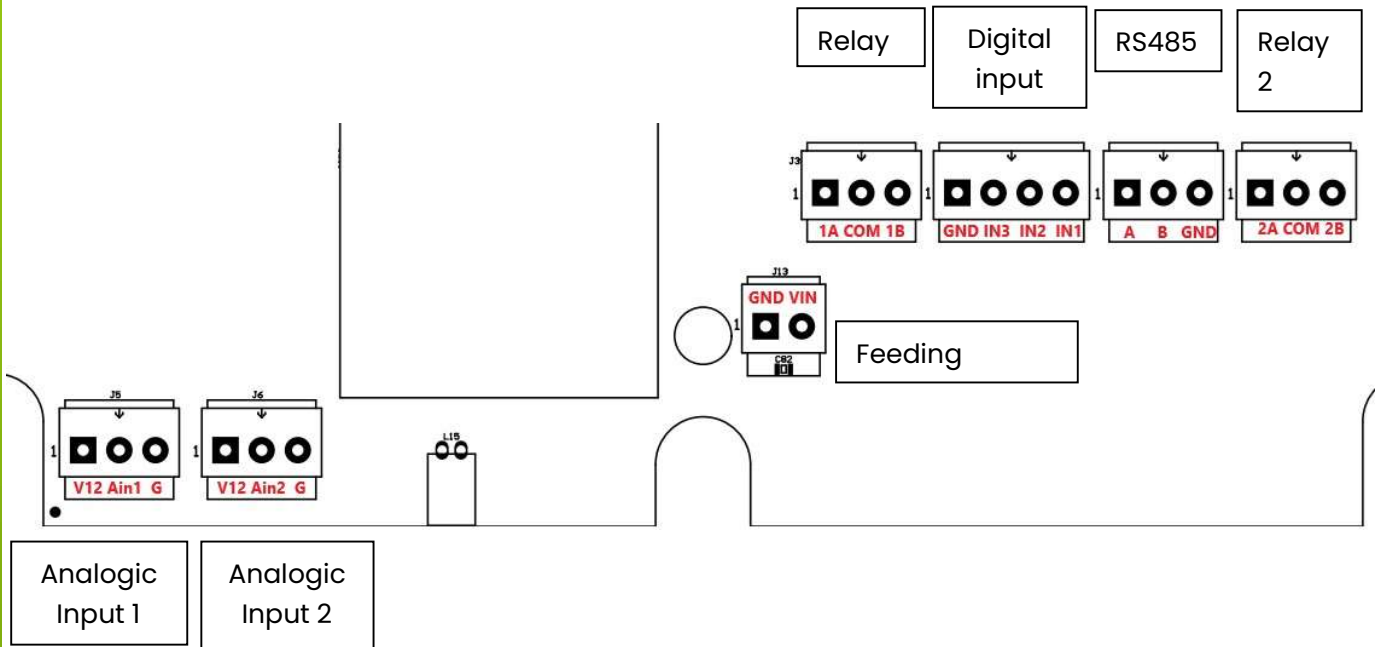
- Battery or power supply 10-32 VDC
- Average < power consumption: 3W
- N. 1 RS485 serial interface on terminal
- Removable clamps, 4mm pitch
- Signal LED
- Mass memory on Micro SD up to 64GB

Software

- ModBus RTU/TCP Master/slave
- Configurable data logger
- Data sending via FTP and MQTT protocols



Below you can find a diagram of the arrangement of the various contacts on the lower side of the device:



- **Power Supply:** 10–32Vdc
- **Battery Input:** 3.0–3.8V
- **Counter1/Counter2:** they are 2 bistable relays 5A, 240 VAC (resistive load)
- **Digital input:** only dry contacts can be connected between GND and one of the 3 inputs
- **RS485:** compared to what is shown on the image, the order is: B A GND
- **Analog inputs:** depending on the configuration I can connect:
 - **Live Inputs on G-Ain:** 0–10V
 - **Current inputs on G-Ain:** 4–20mA with the possibility of powering the sensor between G–V12
 - **PT100 Sensors Between G-Ain**
 - **NTC10K Sensors Between G-Ain**