



# RS485 Modbus Master Controller

## Connectivity Solution for IoT



# CN4

### **General Description**

*CN4 is a sensors designed to read data from other devices using Modbus protocol or IEC 62056-21 protocol via RS485 serial interface.*

*The radio transmission is based on the new disruptive LoRa™ long range technology operating in sub-GHz band.*

*The sensor is fully configurable via USB interface or in remote mode using LoRaWAN Network server.*

*The Sensor is able to read data from different slave devices attached on RS485 bus.*

*The low battery consumption characteristic allow the sensor to operate for several years.*



## Technical Features

### Radio

- LoRa™ long range radio module operating at AS923, AU915, IN865, EU868, KR920, US915 Hybrid

### Firmware

- LoRAWAN v1.0.2 class A/C compliant
- Fully configurable
- Programmable Alive signal
- Easy wake up system
- Alive messages
- Low power consumption

### Modbus

- RS485 with cable length 100cm (customizable on request)
- Up to 10 fully configurable scenarios for each device
- Supported Baud Rates: 300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200
- UART and scenarios configurable from server

### Mechanical Information

- Temperature range  $-20^{\circ}\text{C} < \dots < +55^{\circ}\text{C}$  with typical accuracy tolerance  $\pm 0.3^{\circ}$
- Easy Installation
- IP68 grade protection

### Power

- 1pz Size C 6500mA lithium-thionyl

Frequencies	AS923, AU915, IN865, EU868, KR920, US915 Hybrid
RF power	14dBm EIRP 20dBm EIRP(US915H)
Modulation	LoRa™
Network Protocol	LoRaWAN v1.0.2
RX sensitivity	-138dBm
Battery	3.6V lithium-thionyl chloride (Li-SOCI 2 )
Temperature range	$-20^{\circ}\text{C} < T < +55^{\circ}\text{C}$
Antenna	Helical antenna
Power supply	Min 2,6V / Max 3,6V Typ.3,0V
Consumption standb	4 uA
Dimension	150 x 55 x 45 mm
Reference standards	EN 301 489-3 EN 300 220-1 EN 60950