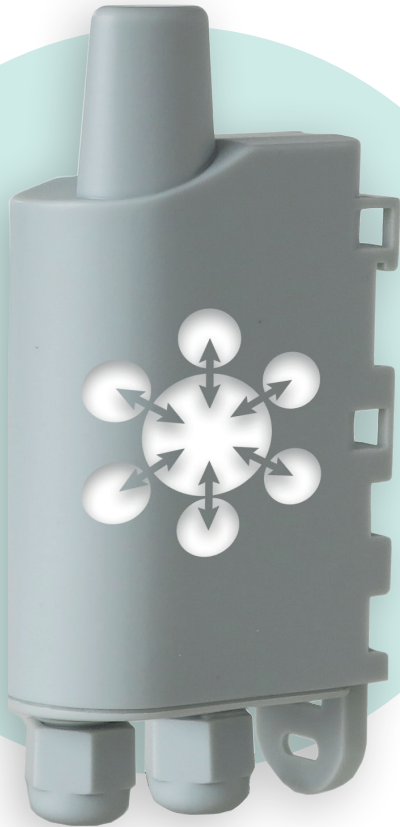


# MODBUS

Query, write and read one or more registers  
on one or more Modbus slaves.



**ALERT**

Report faults and alerts from  
MODBUS slaves :

- Min/max thresholds



**MEASURE**

Provide feedback about measuring  
data from Modbus slaves



**ACT**

- Read a slave's registers from  
the network
- Write to a slave's registry from  
the network



**Additional features:**

- Periodic transmission (up to 6 frames with different frequencies)
- Slave management: read and write
- Error/fault management: product error warning, configuration error
- Alarm repetition in case of persistent event
- Indicator lights for installation assistance



Make your thermal energy meters  
communicate.



Broadcast information on PLC.

# TECHNICAL SPECIFICATIONS



## LoRaWAN US915 ARF8240BA | LoRaWAN AS923 ARF8240JA

### Mechanical specifications

Weight	70 g
Dimensions	105 x 50 x 27 mm
Enclosure	IP67, EMERGE™ PC 8731HH grey resin (casing), EMERGE™ PC 8430-15 transparent resin (sole)
Fixations	DIN Rail, Tube, Wall, Collar
Cable length	2 cable of 6 wires (70 cm + 10 stripped wire)
Modbus Protocol	Remote Terminal Unit (RTU)

### Operating conditions

Temperature	-25°C / +70°C
Humidity	0 to 85% RH (non-condensing)

### Device Power Supply

Alimentation	External supply 6-30V continuous
Slave supply management	Monitor the supply of the slave
Current max returned to the sensor	500 mA

### Device configuration

Local device configuration	IoT Configurator
Test Read and Write into slaves	Advanced mode of the IoT Configuration
Remote device configuration	Downlink through network and KARE platform
Security	PIN/PUK Code protection

### Radio/Wireless

Supported regions	LoRaWAN US902-928 / LoRaWAN AS923-1
Wireless Security	AES-128 data encryption
LoRaWAN Class	Class A or C
Supported LoRaWAN features	OTAA, ABP, ADR, adaptive channel setup
RF transmit power	LoRaWAN US902-928: +18 dBm LoRaWAN AS923-1: +16 dBm
Sensitivity	-135 dBm LoRaWAN @SF12

### Regulations and certifications

Standard	AUS/NZ: IEC 62368-1(safety) / AS/NZS 4268:2012 US: FCC- Title 47 CFR Part 15 CANADA: RSS-247 Issue 2
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### RS232 Link

Signals	RX, TX, Ground (RTC and CTS are not handled)
Voltage of inputs/outputs	+/- 5V typ, +/- 15V max

### RS485 Link

Signals	TX-, RX-, RX+; TX+, Ground
Voltages on inputs/outputs	+/- 1.5V typ, 3V differential
Polarization resistors	560 Ohms
Termination resistor	120 Ohms

