

BINDER CONNECTOR

Make your gaz meters
communicate in ATEX zone 1.



MONITOR

- Receive values of the indexes from gas meters,
- Monitor over-consumption.



ALERT

Alert when the flow rate exceeds a threshold

Additional features:

- Solution already wired to a Binder connector
- Optimisation of autonomy: historisation
- Data accessibility: redundancy
- Sending: periodic and/or on events
- Error / fault management: alert on configuration error, low battery

ATEX

- Gas & steam
Zone 1: immediate proximity to the sensitive area
Groupe IIC: hydrogen gases and vapors, acetylene...
- Dust
Zone 21: immediate proximity to the sensitive area



Monitor your gas consumption in
the immediate proxymity of your
meter.

TECHNICAL SPECIFICATIONS



LoRaWAN ARF8230FA-B01

Mechanical specifications

Weight	70 g (battery included)
Dimensions	105 x 50 x 27 mm
Enclosure	IP67, EMERGE™ PC 8731HH grey resin (casing), EMERGE™ PC 8430-15 transparent resin (sole)
Mounting	DIN Rail, Tube, Wall, Collar

Operating conditions

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

Device Power Supply

Battery Type	1 soldered battery
Expected Battery Life	For 1 index per hour and 1 transmission every 4 hours (6 frames/day), 10,000 pulses and Pull-Up activated: LoRaWAN SF12: 9.3 years LoRaWAN SF7: >10 years

Device configuration

Local device configuration	IoT Configurator
Remote device configuration	Downlink via the network or via the KARE platform
Configuration and firmware update from the air	KARE+ compatible
Security	PIN/PUK Code protection

Radio/Wireless

Supported regions	LoRaWAN EU863-870
Wireless Security	AES-128 data encryption
Class	LoRaWAN: Class A
Supported LoRaWAN features	OTAA, ABP, ADR, adaptive channel setup
RF transmit power	14 dBm
Sensitivity	-132 dBm LoRaWAN @SF12

Regulations and certifications

Standard	Directive 2014/53/UE (RED)
ATEX	2014/34/UE ATEX II 2 G D Ex ib IIC T4 Gb Ex ib IIIC T135°C Db -20°C < Tamb < +40°C Uo ≤ 3.9V; Io ≤ 6.1mA; Po ≤ 6mW; Co ≤ 440µF; Lo ≤ 930mH Ui ≤ 15V; Ii ≤ 1000mA; Pi ≤ 3750mW; Ci = 0µF; Li = 126nH

BINDER CONNECTOR

Product equipped with a connectorised cord	
Cable length	0.70 meters
Connector	6 point angled female BINDER type M16 IP67 reference 99 5122 75 06
Inductance	< 0,004 mH (milliH)
Capacitance	< 0,00012 uF (microF)

Take into account the inductance and capacitance of the cable when checking the conformity of the intrinsic parameters of the product with the equipment to which it will be connected.

