

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 proximity of your meter.

TECHNICAL SPECIFICATIONS



LoRaWAN ARF8230FA-B01 | Sigfox ARF8230GA-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

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

Device Power Supply

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|-----------------------|--|
| 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: Sigfox: 4.7 years LoRaWAN SF12: 9.3 years LoRaWAN SF7: >10 years |

Device configuration

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|--|---|
| 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 (only with LoRaWAN) |
| Security | PIN/PUK Code protection |

Radio/Wireless

| | |
|----------------------------|---|
| Supported regions | LoRaWAN EU863-870 / Sigfox RC1 |
| Wireless Security | AES-128 data encryption (LoRaWAN only) |
| Class | LoRaWAN: Class A Sigfox: Class 0 |
| Supported LoRaWAN features | OTAA, ABP, ADR, adaptive channel setup |
| RF transmit power | 14 dBm |
| Sensitivity | -132 dBm LoRaWAN @SF12 <-122 dBm Sigfox |

Regulations and certifications

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|----------|---|
| 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.

