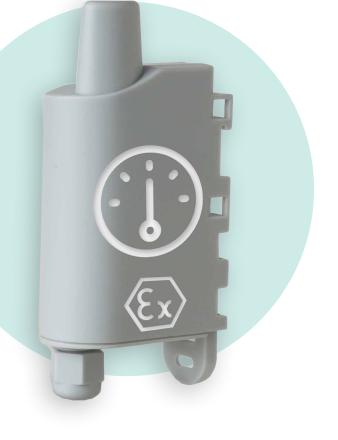






# Make your meters communicate in ATEX zone 1.



Alert when the flow rate exceeds a threshold



ALERT

Reading of water and gas meters:

- $\cdot\,$  Periodic transmission of the index
- Periodic monitoring of flow rates (min/max), fraud and leaks

#### Additional features:

- Autonomy optimization: historization
- Accessibility of the data: redundancy
- Error or Default management: Hardware
- error, configuration inconsistancy and low battery alert
- Timestamp of the frame (LoRaWAN)
- Network Quality Test at start-up (LoRaWAN)

### ATEX

Gas &steam

Zone 1: immediate proximity to the sensitive area Groupe IIC: hydrogen gases and vapors, acetylene...

• Dunst Zone 21: immediate proximity to the sensitive area



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



Count the opened / closed status or filling volume of a grain silo, placed on a SEVESO site.

## TECHNICAL SPECIFICATIONS





### LoRaWAN ARF8230FA | Sigfox ARF8230GA

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	10,000 pulses and Pull-Up activate	ission every 4 hours (6 frames/day), ed: 2: 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	
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   <-1	22 dBm Sigfox
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 = 0.13mH	
Impulse input		
Number of channels	1 or 2 channels configurable (eg: 1 counter with 5 wires or 2 counters with 3 wires)	
Equivalent input pull-up	180 kΩ (water), 47 kΩ (gas)	
nput frequency	<100 Hz	
BUNDLE	LoRaWAN	Sigfox
PULSE + BINDER	ARF8230FA-B01	ARF8230GA-B01
PULSE + GAZAPAR	ARF8230FA-B02	ARF8230GA-B02