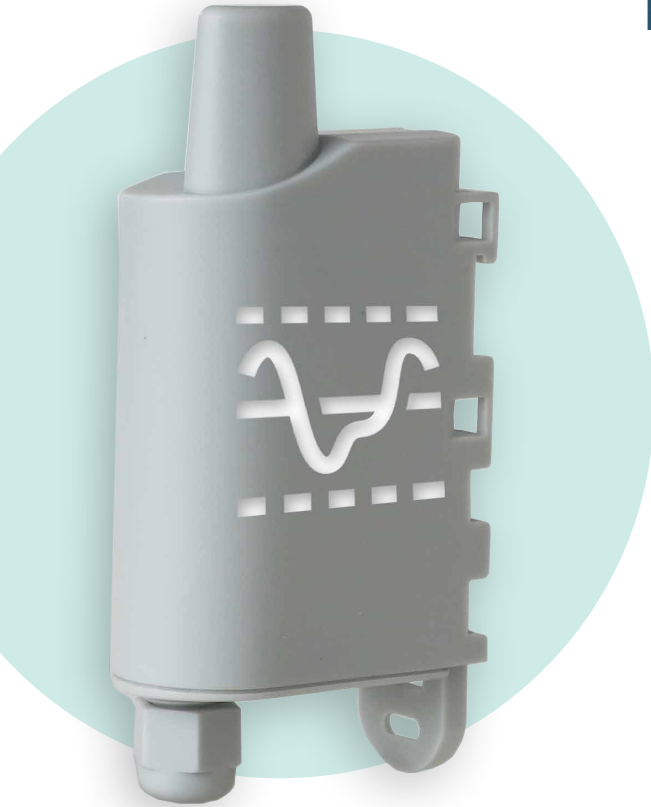


# ANALOG ANALOG PWR

Give IoT connectivity to wired analog sensors (0-10V or 4-20mA).

Functions: **2 analogue inputs**



Provide warnings should thresholds be exceeded (high / low)



· Continuously monitor the values of an equipment or a 0-10V or 4-30 mA sensor (current clamp, temperature, rain gauge, etc.)



Additional features :

- Periodic or event-driven transmission
- Error/fault management: product error warning, configuration error, low battery (for ANALOG version)



Monitor the electrical consumption of an equipment via a current clamp.



Measure the continuous filling level of a tank.



Giving IoT connectivity to industrial sensors already installed on a production site.

# TECHNICAL SPECIFICATIONS



**ANALOG : LoRaWAN ARF8190BA | Sigfox ARF8191BA**  
**ANALOG PWR : LoRaWAN ARF8200AA | Sigfox ARF8201AA**

## Mechanical specifications

Weight	70 g (battery included), 49 g (powered version)
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	Removable battery or External supply 6-36V continuous
Sensor supply management	Do not monitor the supply of the sensor
Expected Battery Life (ANALOG)	For 1 frame every 2 hours (12 frames per day) : - Sigfox: 4.2 years - LoRaWAN SF12: 6.5 years - LoRaWAN SF7: >10 years

## Device configuration

Local device configuration	IoT Configurator
Remote device configuration	Downlink via the network or via the KARE platform and KARE platform

## 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	-136 dBm LoRaWAN @SF12 / -124 dBm Sigfox

## Regulations and certifications

Standard	Directive 2014/53/UE (RED)
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## 4-20mA interface

Current	4-20mA
Equivalent input impedance	99,8 (+/-0.1%) Ω

## 0-10V interface

Voltage	0-10V
Equivalent input impedance	337,3 (+/-0.2%) kΩ

## Digital inputs for triggering

Voltage	0-24V
Equivalent input resistance	500 kΩ
Input frequency	10 Hz

PACKAGE	LoRaWAN	Sigfox
Current sensor 50A	ARF8190BA-B01	ARF8191BA-B01
Current sensor 100A	ARF8190BA-B02	ARF8191BA-B02

