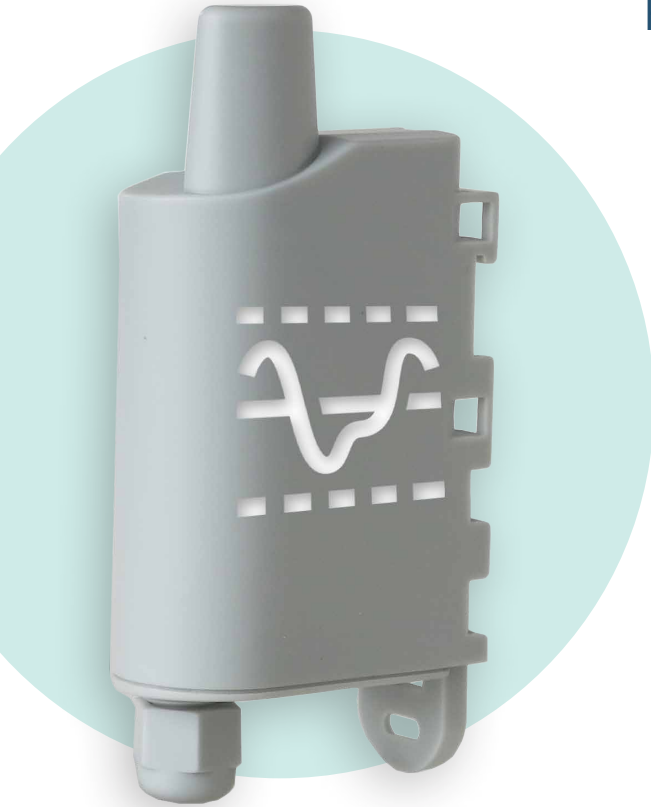# ANALOG
ANALOG PWR

adeunis
IOT PRODUCTS & SOLUTIONS

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

Functions: **2 analogue inputs**

ALERT

Provide warnings should thresholds be exceeded (hight / low)

MEASURE

· 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)

4-20mA interface			0-10V interface		
Current	4-20mA		Voltage	0-10V	
Equivalent input impedance	99,8 (+/-0.1%) Ω		Equivalent input impedance	337,3 (+/-0.2%) kΩ	

Digital inputs for trigerring	
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