PULSE IP68

adeunis
WIRELESS PRODUCTS & SOLUTIONS

Make all your meters or pulse output equipments communicate.

MONITOR

Monitor values from water, gas and electricity meters
· Periodic transmission of the index
· Periodic monitoring of flow rates (min/max), fraud and leakage

ALERT

Alert when the flow rate exceeds a threshold

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Additional features:
· **Periodic and/or event mode**
· **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)

Monitoring energy consumption in a building (water, electricity, etc.).

Count the number of cycles of an equipment to anticipate its maintenance.

TECHNICAL SPECIFICATIONS

PULSE LoRaWAN ARF8230ABA | Sigfox ARF8230CBA

Mechanical specifications	
Weight	107.2 g (battery included)
Dimensions	132 x 62 x 34 mm
Enclosure	IP68, 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 connectorized battery pack
Expected Battery Life	Depending on configuration Eg: Logging with 1 index / hour and 1 send / 4 hours (6 frames / day), 10,000 pulses and Pull-Up disabled: 5.3 years in Sigfox | >10 years in LoRa SF12 | >10 years in LoRa SF7

Device configuration	
Local device configuration	IoT Configurator
Configuration and firmware update from the air	KARE+ compatible
Remote device configuration	Downlink through network or through 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)
LoRaWAN Class	Class A
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	
Standard	Directive 2014/53/UE (RED)

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)
Input frequency	<100 Hz

BUNDLE	LoRaWAN	Sigfox
PULSE 2 cables of 3 wires CBL	ARF8230ABA-CBL2	ARF8230CBA-CBL2