

PULSE



Make all your meters or pulse output equipments communicate.





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

Additional features:





· 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)









PULSE LoRaWAN ARF8230ABA | Sigfox ARF8230CRA

Weight	103 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	Eg: 1 index/hour and 1 transmission/3 hours, 2 channels activated, 500 pulses detected per channel per day, pull-up deactivated 7.3 years in Sigfox >10 years in LoRaWAN SF12 >10 years in LoRaWAN SF7	
Device configuration		
Local device configuration	IoT Configurator	
Configuration and firmware update from the air	KARE+ compatible	
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 <-130 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	ARF8230CRA-CBL2

