PULSE



Turn all your meters and pulse output into smart equipment.





Periodically report water, electricity and heat meter readings:

- · index transmission,
- · flow monitoring (min/max).

Count the number of cycles of a piece of equipment and anticipate its maintenance.



ALERT

AND/OR Trigger an alarm when:

- · a fraud is detected.
- the flow rate exceeds a threshold (high/low),
- · a leak is detected.

Additional features:

- · 2 configurable pulse inputs
- · Fraud and leak detection
- · Flow monitoring for a meter
- · Data transmission modes: periodic and/or event-triggered
- Over 15 years of autonomy with standard configuration
- · Autonomy optimization: data logging
- · Local and remote product configuration





TECHNICAL SPECIFICATIONS





PULSE

Current versions and associated part number					
LoRaWAN	US902-928 AU915-928 AS923	ARF8230BRA ARF8230IRA ARF8230JRA			
Sigfox	RC2 RC4	ARF8230DRA ARF8230KRA			
General specifications					
Weight	103g (battery included)				
Dimensions	132 x 62 x 34 mm				
Enclosure	IP68, EMERGE™ PC 8731HH grey resin (housing), EMERGE™ PC8430-15 transparent resin (base)				
Mounting	DIN rail, tube, wall, collar				
Battery Type	Replaceable battery (4000 mAh)				
Recommanded operating conditions	-25°C / +70°C ; 0 to 85% RH (non-condensing)				
Device configuration					
Local device configuration	IoT Configurator (Windows/Android)				
Remote device configuration	Downlink via the network or via the KARE platform				
Security	PIN/PUK code protection				

Impulse input	
Number of channels	1 or 2 configurable channels (eg: 1 meter with 5 wires or 2 meters with 3 wires)
Equivalent input pull-up	180 kΩ (water), 47 kΩ (gas)
Input frequency	<100 Hz
Compatible pulse output type	S0, dry contact, open collector, reed relay

BUNDLE	PART NUMBER
PULSE 6 wired CBL	ARF8230xRA-CBL2



TECHNICAL SPECIFICATIONS





LoRaWAN PULSE

Zone	US902-928 Mhz	AS923-1 Mhz	AU915-928 Mhz	
Part number	ARF8230BRA	ARF8230JRA	ARF8230IRA	
Autonomy				
Expected Battery Life	1 index/hour and 1 transmission/3 hours, 2 channels activated, 500 pulses detected per channel per day, pull-up disabled.			
	SF7 SF10 SF12: > 15 years			
Radio/Wireless fea- tures				
LoRaWAN spec.	1.0.4			
Wireless Security	AES-128 data encryption			
Class	Class A			
Supported LoRaWAN features	OTAA, ABP, ADR, adaptive channel setup			
Joining phase	Can be customised (number of attempts, time between attempts), remote join re-launch			
Network quality test	Performed automatically when the product starts up (via			
RF transmit power	+ 20 dBm	+ 14 dBm	+ 20 dBm	
Regulations and certific	ations			
Standard	US: FCC- Title 47 CFR Part 15 Canada: RSS-247 Issue 2	AS/NZS 4268	AS/NZS 4268	

Sigfox PULSE

Zone	RC2	RC4			
Part number	ARF8230DRA	ARF8230KRA			
Autonomy					
Expected Battery Life	1 index/hour and 1 transmission/3 hours, 2 channels activated, 500 pulses detected per channel per day, pull-up disabled.				
	>15 years	>15 years			
Radio/Wireless features					
Class	Class 0				
RF transmit power	+ 20 dBm	+ 14 dBm			
Regulations and certifications					
Standard	US: FCC- Title 47 CFR Part 15 Canada: RSS-247 Issue 2	AS/NZS 4268			

