LoRaWAN / Sigfox





Turn all your meters and pulse output into smart equipment.



- Start-up pulse detection test
- IP68 protection rating



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



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

TECHNICAL SPECIFICATIONS





		PULSE				
Current versions and associated part number						
LoRaWAN	EU863-870 US902-928 AU915-928 AS923	ARF8230ARA ARF8230BRA ARF8230IRA ARF8230JRA				
Sigfox	RC1 RC2 RC4	ARF8230CRA ARF8230DRA ARF8230KRA				
General specifications						
Weight	103g (battery included)					
Dimensions	132 x 62 x 34 r	132 x 62 x 34 mm				
Enclosure	IP68, EMERGE™ PC 8731HH grey resin (housing), EMERGE™ PC8430-15 trans- parent resin (base)					
Mounting	DIN rail, tube, wall, collar					
Battery Type	Replaceable battery (4000 mAh)					
Recommanded operating condi- tions	-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					
Configuration and firmware up- date over-the-air	KARE+ compatible (only for LoRaWAN EU868 and Sigfox RC1)					
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
Pulse detection test on start-up	via LEDs

BUNDLE	PART NUMBER
PULSE 6 wired CBL	ARF8230xRA-CBL2



TECHNICAL SPECIFICATIONS



LoRaWAN PULSE

Zone	EU863-870 Mhz	US902-928 Mhz	AS923-1 Mhz	AU915-928 Mhz
Part number	ARF8230ARA	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 features				
LoRaWAN spec.	1.0.4			
Wireless Security	AES-128 data encryption			
Class	Class A			
Supported LoRaWAN features	OTAA, ABP, ADR, adaptive channel setup			
Data time-stamping	EPOCH 2013 format (can be activated)	-	-	-
Joining phase	Can be customised (number of attempts, time between attempts), remote join re-launch			
Internal clock synchronisation	Automatic and daily with network time (function can be activated)			
Network quality test	Performed automatically when the product starts up (via LEDs) -			
RF transmit power	+ 14 dBm	+ 20 dBm	+ 14 dBm	+ 20 dBm
Regulations and certifica	ations			
Standard	Directive 2014/53/UE (RED)	US: FCC- Title 47 CFR Part 15 Canada: RSS-247 Issue 2	AS/NZS 4268	AS/NZS 4268

Sigfox PULSE

Zone	RC1	RC2	RC4					
Part number	ARF8230CRA	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.							
,	7.3 years	>15 years	>15 years					
Radio/Wireless features								
Class	Class 0							
RF transmit power	+ 14 dBm	+ 20 dBm	+ 20 dBm					
Regulations and certifications								
Standard	Directive 2014/53/UE (RED)	US: FCC- Title 47 CFR Part 15 Canada: RSS-247 Issue 2	AS/NZS 4268					

