

Sensori Wireless

A-Pulse

Wireless Probe for the count of S0 pulses

The A-PULSE IPW02 wireless probe, together with the Receivers/Gateway IE-LoRa-GW01 and EI-LoRa-GW02, allows to acquire up to two impulsive inputs to potential-free contacts (S0). The probe utilizes the transmission technology provided by the LoRa® standard, which guarantees wide coverage, without the need for signal repeaters.



The probe is powered by one 3.6V (C, 8500 mAh) lithium battery (Li-SOCl₂), replaceable by the user, which typically guarantees 5 years of autonomy. Battery autonomy depends on the distance from the receiver, on the frequency of the impulses and on the settings of the transmission intervals. The probe can be configurable for Data Logger functionality, i.e. they are capable to store, at configurable intervals, the acquired measurements. The data is saved on the internal Data Flash which can hold 500,000 records.

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Two-channel S0 pulse counter radio probe.

The user interface consists exclusively of LED signals and a Reed contact, but thanks to a PC application with a Wireless LoRa USB key it is possible to enter into the configuration of the device (even remotely).

Technical Data Sheet

General information	
User interface	Activation Reed - Information LED
Antenna	Helical integrated (gain 2.4 dB)
Mounting	Wall mounted with bottom plate

Mechanical	
Operational temperature limit	-10 ... +65 (°C)
Storage temperature limit	-20 ... +75 (°C)
Module container Class	IP30
Container material	ABS autoestinguente UL 94 V0
Weight	230 (g)
Dimensions	85 x 85 (mm) IP65

Electrical	
Power supply	1 Li-SOCl ₂ type AA battery (3.6 V, 2200/2700 mAh)
RTC lithium battery life	Typical (with acquisition and transmission every 10 minutes): 5 years in Long Range mode – 7 years in Medium Range mode
Transmission frequency	ISM band 868 Mhz
Transmission power	From 2.5 to 25 mW (Automatically adjusted)
Outdoor distance	5 (Km)
Frequenza massima conteggio	10 Hz
Durata minima di impulso	100 mS
Massimo valore di totalizzazione	4.000.000.000
Massimo totalizzazione UI2	4.294.967.295,0000000
Storage interval ³	Da 1 minuto a 60 minuti
IP protection degree	IP65
Radio disturbances	EN 61000-6 EN 55024:2010-11
Construction standards	CEI

Connectivity	
USB	Available
Wireless - Local	Available for the connection with the configuration and data management software