

Pulse Counter



Description

The wireless pulse counter from *Smart Box & GeoPortal* measures electrical and mechanical pulses and communicates this information through our portal. The sensor allows integration with a dry contact or mechanical switch to count the number of activations that occur within a given period of time.

Operation

The sensor counts passive (switch open / closed) or active (+3 VDC to +15 VDC) pulses. The sensor includes software-configurable low-pass filter settings. It applies filters to pulses with a width greater than a preset value. The sensor is configured to send alerts through our portal when a certain number of pulses has been reached within a set period of time. The alerts are sent as they occur (in real time) via Telegram and email.

Main Features

- Uses LoRaWAN technology
- Range of the wireless network: 5 km
- Counts the number of pulses in a period of time, or continuously
- Counts the rising edge, falling edge or both edges of a pulse.
- Extra measurements for temperature, acceleration and atmospheric pressure
- Easy to install and maintain



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Specificacions

Counter	
Number of pulses	0 – 65535 (between two uplinks)
Number of absolute pulses	0 – 4294967295
Max. frequency of the pulses	40 Hz
Battery	1 x 3.6V AA Lithium 14505 (Li-SOCl2)
Battery lifespan	3 years
Temperature	
Range	0 – 60 °C
Resolution	0.1 °C
Accuracy	± 0.2 °C
Aceleration	
Range	± 2.0 g
Sensitivity	16 mg/digit
Sampling rate	10 Hz
Atmospheric pressure	
Range	260- 1260 hPa
Accuracy	± 1 hPa
Physical configuration	
Size (L x W x H)	94 x 59 x 35 mm (without antenna)
Weight	100 g (battery included)
Standards and Certifications	
Protection class	IP67
Temperature range	-40 – 60 °C

