TRUETY

True Utility Data

Pulse Collector

The Truety Pulse Collector converts pulse output meters into wireless using LoRaWAN® technology. It's compatible with Truety LoRaWAN® infrastructure and boasts an exceptional battery life that lasts up to 10 years without the need for replacement.

This device is perfect for both indoor and outdoor applications, making it an ideal solution for areas where existing pulse output devices need to be added to the Truety System.

Specifications

Measurement	Pulse Collector
Port	1 × GPIO Interface, Dry Contact
Work Mode	Pulse Counter, Digital Input
Cable Length	3Ft (Customizable)
Applicable Meters	Reed switches meters or any other passive pulse meters

Wireless Transmission	Pulse Collector
Technology	LoRaWAN®
Frequency	US915
Tx Power	20 dBm
Sensitivity	-137dBm @300bps
Mode	OTAA/ABP Class A

Physical Characteristics	Pulse Collector
Power Supply	2 × 4000 mAh ER18505 Li-SOCL2 Battery
Battery Life	10 years (10 min interval + 12 pulse counts per day)
Operating Temperature	-22°F to +158°F
Relative Humidity	≤95% (non-condensing)
Ingress Protection	IP67
Dimension	4.16 × 3.36 × 1.06 in

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Sensors

Temperature	Pulse Collector
Range	-22°F to +158°F
Accuracy	32°F to +158°F [+/- 0.3°K], -22°F to 32°F [+/- 0.6°K]
Resolution	0.1°K

Humidity	Pulse Collector
Range	0% to 100% RH
Accuracy	10% to 90% RH [+/- 3%], below 10% and above 90% RH [+/- 5%]
Resolution	0.5% RH

Carbon Dioxide [CO_2]	Pulse Collector
Operating Principle	Digital CMOSens® technology [MEMS]
Range	0% - 100% RH
Accuracy	± [30 ppm + 3 % of reading] [32°F to +122°F]
Resolution	1 ppm

Operation	Pulse Collector
Power On & Off	NFC, Power Button [Internal]
Configuration	NFC Configuration via Mobile App

Key Hardware Features

» Flexible configuration that allows to easily enable, stop, or clear accumulated values

» Enable digital filtering to remove interference signals and improve the accuracy of the pulse counter

» Embedded with temperature and humidity sensors for environment monitoring

» IP67 waterproof enclosure for harsh environment applications

» This technology allows for long-range transmission up to 10km when there is an unobstructed line of sight

» Storage of over 2200 historical records and support for retransmission to prevent any potential data loss

» This device comes with an 8000 mAh built-in battery that can be replaced and will last for 10 years without needing to be replaced

» Features built-in NFC to simplify the configuration process

» Compliant with standard LoRaWAN® gateways and network servers

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