

Wireless Pulse Counter Interface



R718H Data Sheet

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Wireless Pulse Counter Interface

Introduction

The device is connected with a pulse detection interface, which can calculate the number of pulses and send the detected number of pulses to the gateway display. It uses the SX1276 wireless communication module.

Main Characteristic

- Apply SX1276 wireless communication module
- 2 ER14505 batteries AA size in parallel (3.6V / section)
- IP rating IP65
- Pulse Counter detection
- External equipment of pulse voltage range is 2.4v~3.3v
- The base is attached with a magnet that can be attached to a ferromagnetic material object
- LoRaWAN™ Class A compatible
- Frequency Hopping Spread Spectrum (FHSS)
- Third-Party online wireless sensor monitoring and notification system to configure sensors, view data and set alerts via SMS text and email (optional)
- Available third-party platform: Actility/ThingPark, TTN, MyDevices/Cayenne
- Improved power management for longer battery life
- Battery Life:

~Please refer to web: http://www.netvox.com.tw/electric/electric_calc.html

~ At this website, users can find battery lifetime for varier models at different configurations

*1. Actual range may vary depending on environment

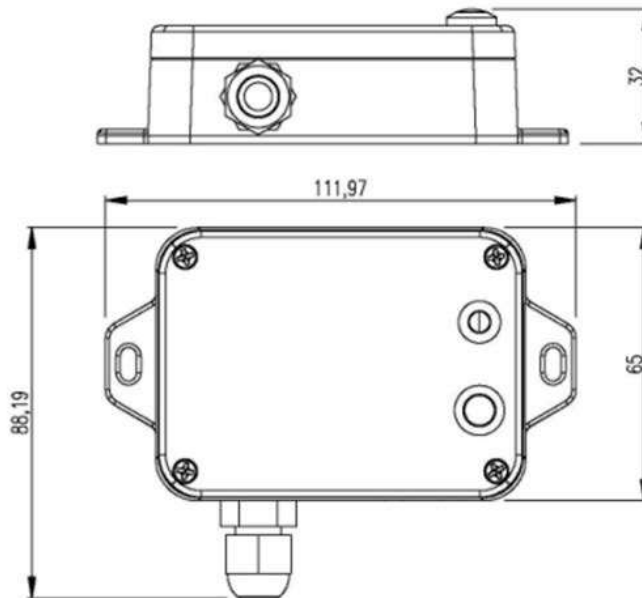
*2. Battery life is determined by sensor reporting frequency and other variables

Application

- Interface for pulse detection counting

Wireless Pulse Counter Interface

Technical Specification



Unit. mm

Electric

Input Power	2 x 3.6V ER14505 AA size lithium batteries (3.6V2400mah/section)
Operating Voltage	3.1V ~ 3.65V
Standby Current	23 uA
Wakeup Current	6.3mA
Low Battery Voltage Threshold	3.2V
Battery Measurement Accuracy	±0.1V

Module-R100H

Wake-up Current	0.8mA - 8mA@3.3V
RF Receiving Current (max)	11mA/3.3V
RF Transmitting Current (max)	120mA/3.3V

* Specific electrical characteristics may vary depending on the power supply voltage

Wireless Pulse Counter Interface
Frequency

Frequency Range	863MHz-928MHz 470MHz-510MHz
TX Power	US915 20dbm AS923 16dbm AU915 20dbm CN470 19.15dbm EU868 16dbm KR920 14dbm IN865 20dbm
Rx Sensitivity	-136dBm (LoRa, Spreading Factor=12, Bit Rate=293bps) -121dBm (FSK, Frequency deviation=5kHz, Bit Rate=1.2kbps)
Antenna Type	Build-in antenna
Communication Range	10 km (The actual transmission distance depends on the Environment.)
Data Transfer Rate	0.3kbps~50kbps (LoRa) 1.2kbps~300kbps (FSK)
Modulation Method	LoRa/FSK (Note: choose one of them)
Available Frequency	EU863-870, US902-928, AU915-928, KR920-923, AS923-1, AS923-2, AS923-3, IN865-867, CN470-510 (Note: Configured before shipment)
Communication Range	Up to 10 km (The actual transmission distance depends on the Environment.)

Physical

Dimension	Main Body: L:112mm*W:88.19mm*H:32mm
Weight	150g
Environment Temperature Range	-20°C ~ 55°C
Environment Humidity Range	<90% RH (No condensation)
Storage Temperature	-40°C ~ 85°C