



WLRC-I11 / WLRC-I112



Wireless Pulse Counter Interface

The device is connected with two pulse detection interfaces, 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.

The purpose of the Pulse counter is to count the number of pulses during a specified amount of time. The time is dictated by the signal on the start/stop pin. When the start/stop pin is high, the algorithm is counting pulses.

Features:

- Super Long Range Signal Penetration
- 5 years plus Battery Life*
- Easy Installation
- Frequency Hopping Spread Spectrum (FHSS)
- Improved interference immunity
- Encrypt-RF™ Security (Diffie-Hellman Key Exchange + AES-128 CBC for sensor data messages)
- Over-the-air updates
- Interactive WatchNET IoT platform with dashboard, search and notification settings
- * Magnetized ABS enclosure for easy installation



Applications:

- Smart Agriculture
- Smart Cities
- Energy and Utilities
- Smart Operations
- Smart Building
- Smart Metering



Schematic Diagram:



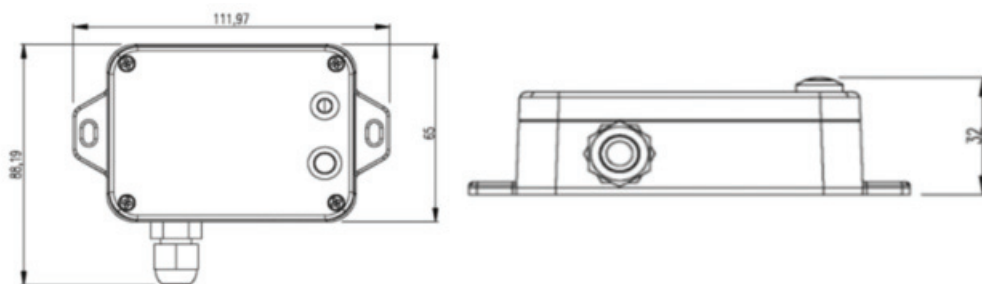
Technical Specifications

Electrical	
Input Power	2x 3.6V ER14505 AA lithium batteries (3.6V2400mah/section)*
Sleeping Mode	23uA (WLRC-I11) / 24uA (WLRC-I112)
Wake up Mode	6.3mA@3.3V
Transmitting current (max)	120mA@3.3V
Receiving current (max)	11mA @3.3V
Battery Measurement Accuracy	±0.1V
<i>*Specific electrical characteristics may vary depending on the power supply voltage.</i>	
Frequency	
TX Power	19dBm±1dBm
Rx Sensitivity	-136dBm (LoRa, Spreading Factor=12, Bit Rate=293bps) -121dBm (FSK, Frequency deviation=5kHz, Bit Rate=1.2kbps)
Antenna Type	Built-in antenna
Communication Range	Up to 500m/0.310miles, the actual transmission distance depends on the environment*
Data Transfer Rate	0.3kbps ~ 50kbps
Spread Technique	LoRa/FSK
Available Frequency	EU863-870, US902-928, Configured before shipment
Physical	
Dimension	L:112mm x W:65mm x H:32mm / L:4.41" x W:2.6" x H:1.26"
Weight	150g / 0.33lb (WLRC-I11) / 160g / 0.35lb (WLRC-I112)
Protection Class	Main Part IP65 / External Sensor IP65
Environment Temperature Range	-20°C ~ 55°C / -4°F ~ 131°F
Environment Humidity Range	<90%RH (No condensation)
Storage Temperature	-40°C ~ 85°C / -40°F ~ 185°F

** Actual signal range may vary depending on the environment.*

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

Dimensions



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