

Holosys LoRaWAN™ PulseReader WPx-L



- Two independent meters readout (LoRaWAN™ PulseReader WP2-L)
- Two-tariff system operation mode (LoRaWAN™ PulseReader WP2-L)
- Due date meter reading feature
- LoRaWAN™ v1.0.2 communication protocol
- Operating frequency 868 MHz

Holosys LoRaWAN™ PulseReader WPx-L is a radio module used for radio meter consumption reading for one or two utility devices (water, gas, electrical energy, heating etc.). The module is capable of reading meters equipped with pulse outputs. The P2 module type reads up to two independent meters. LoRaWAN™ communication protocol ensures compatibility with a wide range of metering equipment.

KEY FEATURES

- Battery life time: up to 15 years
- Range: up to 15 km
- Protection type: IP68
- Operating temperature: -20°C ... 80°C
- Radio telegrams periodical sending for meter readout data transfer
- Adjustable radio telegram sending interval
- AES-128 radio telegrams encryption to protect the data content
- Embedded Real-Time Clock (RTC)
- Stored counter number on a due date sending
- Stored manipulation alarm information (Tamper) sending
- Remaining battery life time sending
- Stored remaining battery life time in months sending
- User configurable counting impulses vs. value increment factor
- Device configuration using AES-128 protected radio channel

TECHNICAL CHARACTERISTICS

Pulse input data	
Min. pulse duration (closed contact)	2 ms
Min. pause between pulses (open contact)	20 ms
Max. pulse frequency	45 Hz
Max. pulse frequency with 50% duty cycle	25 Hz
Contact voltage	2.5V ... 3.6V
Contact current	4 μ A
Contact resistance	1 M Ω
Radio interface	
Frequency	868 MHz SRD band
Communication protocol	LoRaWAN™ v1.0.2; PHY: LoRa®; MAC: LoRaWAN™
Antenna type	Internal
RF(TX) power	14 dBm (25 mW)
RF(RX) sensitivity	Up to -140 dBm
Standards	EN 300-220, EN 301-489-1, EN 301-489-3, EN 60 950-1
General data	
Power supply	Integrated battery Battery life time (25°C): ~ 15 years (depending on the configuration)
Housing	Material: Thermoplastic Dimensions (w x h x l): 77 x 77 x 35 mm Color: Light gray Protection type: IP68 Mounting: Bolts on the mountable surface Connecting cables length: ~ 1.5 m
Operating temperature range	-20°C ... +80°C
Weight	~230 g for P1 ~270 g for P2 (IP68)