



Holosys Wireless M-Bus PulseReader WP1 / WP2

Holosys Wireless M-Bus **PulseReader** is a radio module used for collecting consumption readouts for one or two utility meters (water, gas, electrical energy, heating etc.). The module is capable of reading meters equipped with pulse outputs. The WP2 module is a two-channel pulsereader designed to collect readouts from two independent utility meters. The Wireless M-Bus communication protocol ensures compatibility with a wide range of AMR equipment.



**Wireless M-Bus in
accordance with
EN 13757- 4**



**Operating
Frequency
868 MHz**

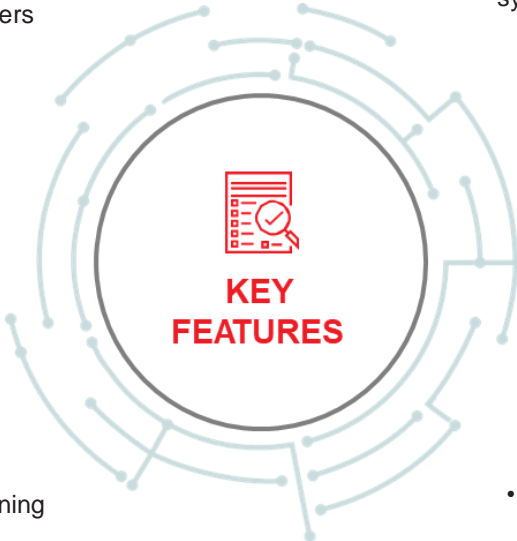


**Compatible with
utility meters that
have pulse outputs**



**Support for
meter reading
on due date**

- Support for two-tariff systems (WP2)
 - Radio range: up to 800 meters
 - Protection type: IP68
 - Adjustable radio packet sending interval
 - Periodical sending of Wireless M-Bus radio packets for transferring meter readouts
 - AES128 encryption of radio telegrams to protect message content
 - CBC-MAC (Cipher Block Chaining Message Authentication Code)
 - Embedded Real-time clock



**KEY
FEATURES**

- Pseudorandom transmission of radio packets in order to avoid synchronous collision
 - Each radio telegram sends a timestamp in order to detect any fraud attempts
 - SENDING: stored counter values at a specific time (Due Date function), manipulation alarm information (Tamper), low battery alarm
 - Possible synchronization with battery-powered radio repeater
 - Configuration using AES128 protected radio channel
 - Possibility to change AES128 passwords

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	868.95 MHz
Antenna type	Internal
Data transmission rate	100Kchips
Standard	EN 13757-4
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 Mounting: Bolts on the mountable surface Protection type: IP68 Connecting cables length: ~1.5 m
Operating temperature range	-20°C ...+80°C
Weight	~230 g (WP1), ~270 g (WP2)