

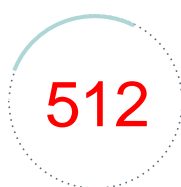
Holosys Wireless M-Bus Receiver WR



Holosys Wireless M-Bus Receiver **WR** is a device which extends wired M-Bus installations with meters equipped with Wireless M-Bus modules. Mapping wireless telegrams to primary and secondary addresses allows integration of wireless meters to the majority of existing and new M-Bus wired installations. The advanced system architecture ensures the extended receiving range for remote meters equipped with Wireless M-Bus transmitters. WR is especially suitable for building large fixed wireless networks for automatic remote meter reading (AMR fixed networks).



Wireless M-Bus in accordance with EN 13757- 3 EN 13757- 4



Up to 512 wireless M-Bus meters



Support for AES 128 bit decryption



Operating Frequency 868 MHz

- Accepts up to 512 Wireless M-Bus meters, capability of saving up to 512 radio telegrams from different meters

- Maximum size of a wireless M-Bus radio telegram is 150 bytes

- User configurable password or encrypted radio telegrams

- Additional data for each received telegram radio device (RSSI of the last reception, time of the last reception, the total number of received telegrams)

- Configuring radio telegram lifetime in the device memory

- Capability for reading Wireless M-Bus devices by using standard M-Bus commands and mapping wireless M-Bus modules to primary and secondary M-Bus addresses on the wire M-bus bus

- Capability of mapping wireless modules to primary M-Bus addresses (Holosys and Hydrometer RF modules)

- **Automatic mapping** - a primary address from the range of the addresses (defined during the initial configuration) will be assigned to each new received radio telegram

- **Manual mapping** - the table of mapping is entered manually during the device configuration. The radio telegram is identified by the wM-Bus address, and the selected primary M-Bus address is assigned to that device

- Capability of mapping Wireless modules to secondary M-Bus addresses (Holosys and Hydrometer RF modules)

- **Direct mapping** - Wireless M-Bus address of the radio telegram becomes the wired M-Bus secondary address

- **Extended mapping** - Wireless M-Bus address of the Wireless M-Bus transmitter (meter) and the secondary address of the Holosys Wireless M-Bus Receiver WR generates an extended secondary address (address with Fab. number)



TECHNICAL CHARACTERISTICS

M-Bus interface	
Data transmission rate	2400 baud
Communication parameters	8 data bits, even parity, 1 stop bit
M-Bus interface	Texas Instruments TSS 721A M-bus transceiver
M-Bus addressing	by using primary and secondary addressing, and by using extended secondary addresses (fabrication number)
Device configuration	by using the M-Bus bus
Access to the list of the received radio telegrams	by using the M-Bus, no standardized M-bus command
Direct reading of the remote radio device	by using the M-Bus bus primary or secondary addressing
Radio interface	
Frequency	868 MHz SRD band
Antenna connector	SMA female
Data transmission rate	100 Kchips
Standard	EN 13757-4
General	
Power supply	From the M-bus bus Current Max. 30mA (20UL) 1 (unit load) 1UL=1,5 mA
Housing	Material: thermoplastic Dimensions (w x h x l): 77 x 77 x 35 mm Color: light gray Protection type: IP20 (higher protection on request) Montage: with bolts on the basis Connection dimension: M-Bus to 2,5 mm ²
Working temperature range	-20 °C to + 50 °C
Humidity	10% .. 70% relative humidity (without condensation)
Weight	approximate 95 g