Holosys Wireless M-Bus OMS Receiver WR

- Up to 512 Wireless M-Bus meters
- In accordance with EN 13757-3 and EN 13757-4
- OMS v4.x.x compatible
- Wireless M-Bus modules mapping to primary and secondary wired M-Bus addresses
- Easy implementation in existing M-Bus installations
- AES-128 bit decryption feature
- Configurable multiple decryption keys
- Suitable for implementation in fixed wireless networks for remote automatic meter reading (AMR fixed networks)

Holosys Wireless M-Bus OMS Receiver WR is a device which extends wired M-Bus installations with meters equipped with Wireless M-Bus OMS 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. The device is using the M-Bus bus for power supply and communication with the central unit. Using just one M-Bus master device (e.g. Holosys M-Bus M250GL) it is possible to connect up to 12 **Holosys Wireless M-Bus OMS Receiver WR** devices what makes the device especially suitable for building large fixed wireless networks for remote automatic meter reading (AMR fixed networks)

KEY FEATURES

- Stores up to 512 radio telegrams from different Wireless M-Bus OMS meters
- Maximum size of the Wireless M-Bus radio telegram is 150 bytes
- AES-128 bit decryption feature
- User configurable password for encrypted radio telegrams
- Additional data for each radio telegram received (last reception RSSI, time of the last reception, total number of received telegrams)
- Wireless M-Bus OMS modules readout by using standard M-Bus commands
- Wireless M-Bus OMS modules mapping to primary M-Bus addresses (Holosys and Hydrometer RF modules)

  Manual mapping - The mapping table is entered manually during the device configuration. Radio telegram is identified by the Wireless M-Bus address and the selected primary M-Bus address is assigned to that device.

- Wireless M-Bus modules mapping 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 OMS transmitter (meter) and the secondary address of the Holosys Wireless M-Bus OMS Receiver WR generates an extended secondary address (address with fabrication number)

- Radio telegram life time configuration

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 or by using extended secondary addressing (fabrication number)
Device configuration	by using the M-Bus bus
Access to the list of the received radio telegrams	by using the M-Bus, non-standard 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), 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 level of protection on request) Mounting: Bolts on the mountable surface Conection dimension: M-Bus to 2,5 mm2
Operating temperature range	-20°C ... + 50°C
Humidity	10% ... 70% relative humidity (without condensation)
Weight	~ 95 g