

Holosys Wireless M-Bus OMS Temperature Sensor WTS



- Wireless M-Bus in accordance with EN 13757-4
- OMS v4.x.x compatible
- Operating frequency 868 MHz
- Battery powered device with autonomous operation up to 15 years
- Equipped with temperature sensor probe on a cable
- Environment temperature accurate measurement
- Wide temperature range measurement (-55°C ... +125°C)

Holosys Wireless M-Bus OMS Temperature Sensor WTS is a device that provides wireless temperature measurement via radio telegrams according to the Wireless M-Bus OMS standard. The device is equipped with temperature sensor probe on a cable and provides accurate environment temperature measurement ($\pm 0.5^\circ\text{C}$ accuracy in $-10^\circ\text{C} \dots +85^\circ\text{C}$ temperature range). Besides temperature, it can optionally read two digital inputs (CH1 and CH2) states. The Wireless M-Bus OMS communication protocol ensures compatibility with a wide range of the equipment

KEY FEATURES

- Battery life: up to 15 years
- Operating temperature: $-20^\circ\text{C} \dots 80^\circ\text{C}$
- Periodic Wireless M-Bus radio telegrams transmission which contains the last measured temperature value and additional information depending on the configuration
- Radio telegrams adjustable sending interval
- Radio telegram AES-128 encryption in order to protect data content
- Configurable AES-128 password
- Pseudorandom radio telegrams sending in order to avoid synchronous collisions
- Battery powered radio repeater synchronization
- Embedded Real-Time Clock (RTC)
- Fault temperature probe alarm sending
- Low battery alarm sending
- Remaining battery life time sending
- Set intervals between temperature measurement
- Device configuration using the AES-128-protected radio channel

TECHNICAL CHARACTERISTICS

Radio interface	
Frequency	868 MHz SRD band
Antenna type	Internal
Data transmission rate	100 Kchips
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 Color: Light gray Protection type: IP20 (higher level of protection on request) Mounting: Bolts on the mountable surface Cable length with sensor: 1 mw
Operating temperature range	-20°C ...+80°C
Weight	~ 120 g (device) ~ 40 g (cable with sensor)