

Wireless M-Bus Temperature Sensor WTS



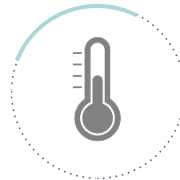
Holosys Wireless M-Bus Temperature Sensor **WTS** is a module that provides wireless temperature measurement through radio telegrams. The device is equipped with a temperature sensor probe on a cable which provides accurate measurement of environment temperature. The Wireless M-Bus communication protocol ensures compatibility with a wide range of equipment. The WTS device is available in both indoor (IP20) and outdoor (IP68) versions.



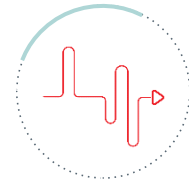
Wireless M-Bus in accordance with EN 13757- 4



Operating Frequency 868 MHz



Environment temperature measurement



Measuring temperature range -55°C ... +125°C

- Battery lifetime: up to 15 years

- Adjustable radio packet sending interval

- Operating temperature: -20°C .. 80°C

- Pseudorandom transmission of radio packets in order to avoid synchronous collision

- AES128 encryption of radio telegrams to protect message content

- Possible synchronization with a battery-powered radio repeater

- **SENDING**: stored minimum and maximum temperature values from previous and current day, fault temperature probe alarm, low battery alarm, remaining battery lifetime in months

- Possibility to change AES128 passwords

- Configuration using AES128 protected radio channel

- CBC-MAC (Cipher Block Chaining Message Authentication Code)

- Embedded Real time clock



TECHNICAL CHARACTERISTICS

Radio interface	
Frequency	868.95 MHz
Antenna type	Internal
Data transmission rate	100 Kchips
Standard	EN 13757-4
General data	
Power supply	Integrated battery Battery lifetime (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 protection on request) Mounting: with bolts on the basis Length of cable with sensor: 1m
Operating temperature range	-20°C .. +80°C
Weight	~120g (device) ~40g (cable with sensor)