

Waterproof External Temperature Wireless M-BUS

Including 2 meter cable

This device is a plug-and-play device intended to measure temperatures using external temperature probes, for example, on pipes. The device can be mounted outdoors and in harsh environments thanks to its IP66-casing.

PERFORMANCE

The device uses only the highest quality components to ensure the best performance and service life. The two internal antennas, which are perpendicular to each other for maximum range in all directions between the meter and collectors, are optimized for 868MHz and are fine-tuned for mounting on concrete, wood or plaster.

FIRMWARE

MODES	T-mode
INTERVAL	300 s
ENCRYPTION	AES128 encryption OMS mode 5, Profile A. Can be custom ordered (ON/OFF).
AES KEY	Unique to each device. Can be custom ordered with fixed AES-key.
STANDARD	T1-Mode, 5min send interval, encryption ON.

WARNINGS

NOT ACTIVE	Shown if the device has not been activated.
BATTERY	Low battery.

POWER/LIFETIME

POWER SUPPLY	3,6 V Li-SOCI2
VOLTAGE	2,4 to 3,6 V
LIFESPAN	16 years typical at 25°C with standard configuration and four external temperature probes.
RADIO	14 dBm output power to antenna.

GENERAL INFORMATION

STANDARDS	2014/53/EU (RED) EN 13757-3/4:2013, OMS 4.0.2
TEMPERATURE	-40 °C to +85 °C
COLOR	Signal White
MATERIAL	PC UV stabilized plastic.
SIZE (W x H x D)	55 x 91 x 43 mm + M12 cable gland.
IP	66



FEATURES

- Continuous battery level monitoring.
- Easy and quick installation.
- Supports up to four external temperature probes.

MEASUREMENTS

The external temperature is sent at fixed intervals using the Wireless MBUS protocol OMS compliant. This makes the sensor ideal for integration in data collection systems.

All packets from the device is protected using AES128 encryption compliant with OMS standard.

EXTERNAL TEMPERATURE PROBE

This device supports up to four external temperature probes. If more than two cables are going to be connected, an external junction box is recommended to the device to ensure reliable readings. The probes are automatically detected and configured at startup. After startup, a magnet can be used on the device to initiate a new search for probes. Our external temperature sensors have a typical accuracy of $\pm 0.5^{\circ}\text{C}$.