

DEVICE

The external temperature device from Lansen is a plug-and-play OMS transmitter for measuring the temperature on for example pipes. Much care have been taken to design a sleek, good looking device with high security and performance.

PERFORMANCE

The device has a robust design with an optional tamper detection if opened or removed from the wall. A bit in the status message is set if sabotage is detected or restored.

The battery level is continuously monitored and a low level warning is issued when battery is nearing depletion.

FIRMWARE

MODES	Configurable C, T or S
INTERVAL	Configurable 60s - 1 hour
ENCRYPTION	AES128 encryption OMS mode 5, Profile A. Configurable ON/OFF, and KEY
STANDARD	T1-Mode, 5 min.Encryption ON

SENSORS

EXT PROBE	One Wire DS18B20+, IP68/IP67 RANGE: -55° to +125° ACC TYP: ±0,5°
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WARNINGS

TAMPER DETECTION	Product opened or removed from the wall (opt).
BATTERY	Low battery
EXTERNAL ERROR	External probe not working.

POWER/LIFETIME

POWER SUPPLY	ER14505 3.6V Li-SOCI2 battery
VOLTAGE	2.4 to 3.6V
LIFESPAN	14 years typical, depending on configuration and operating temperature.
RADIO	14 dBm output power to antenna

GENERAL INFORMATION

STANDARDS	2014/53/EU (RED) EN 13757-3/4:2013, OMS 4.0.2
CASING	White, ABS, 25.5 x 105 x 22 mm

OPERATING CONDITIONS

RADIO TRANSMITTER	Max: -30° to + 85°. Recomend +5° to +50°
RELATIVE HUMIDITY	None condensing

DEVICES

LAN-WMBUS-G2-EXT	External temp probe transmitter.
LAN-EXT-PROBE-OW/DUAL	External one/two probes
LAN-EXT-PROBE-OW-PIPE-1/2/4	External stainless 1-4 pipe probes
LAN-EXT-PROBE-OW-PIPE-C1/C2/C4	External copper 1 - 4 pipe probes
LAN-CF-CABLE	USB Configuration cable

MEASUREMENTS

The external temperature is send at a configurable interval minutes and the data is sent using the Wireless MBUS protocol OMS compliant. This makes the sensor ideal for integration in data collecting systems or drive by solutions.

The data from the device could also be protected using the AES128 encryption compliant with OMS standard.

EXTERNAL TEMP PROBE

The device supports up to 4 external temperature probes connected to the device. The probes are automatically detected and configured at startup. The external temperature sensor has a typical accuracy of ±0,5.

CONFIGURATION

The MBUS mode, transmission interval and encryption can be configured using a USB configuration cable connected to a PC.

