

# Temperature & Humidity with External Connector

temperature / humidity

#### **DEVICE**

The ambient temperature and humidity device from Lansen is a plug-and-play room temperature and humidity transmitter. Much care have been taken to design a sleek, good looking device with high security and performance. The design allows for discrete integration even when mounted in home environment.

#### **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.

## **TEMPERATURE SENSOR**

The on-board temperature sensor is highly accurate with typical accuracy  $\pm 0.2^{\circ}$ .

# 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

MBUS DATA Instant, Average hour, Average 24 hours.

STANDARD T1-Mode, 90 seconds (5 min if ext probe is

connected), Encryption ON.

## SENSORS

TEMPERATURE RANGE: -40° to +85° TYP ACC: ±0,2 at 5 to 65°

HUMIDITY TYP ACC: ±2 %RHat 20-80 % RH..

EXT PROBE Supports One Wire DS18B20+ probes.

RANGE: -55° to +125° ACC TYP: ±0,5°

WARNINGS

TAMPER DETECTION Product opened or removed from the wall (opt).

BATTERY Low battery

# 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 White, ABS, 25.5 x 105 x 22 mm

# OPERATING CONDITIONS

RADIO TRANSMITTER Max: -30° to +85°, Recomended +5° to +50°

RELATIVE HUMIDITY None condensing

DEVICES

CASING

LAN-WMBUS-G2-TH Ambient Sensor for temperature/humidity with

external probe support.

#### **HUMIDITY SENSOR**

The on-board humidity sensor is highly accurate in the entire temperature range, with typical accuracy ±2%RH.

## **MEASUREMENTS**

Temperature and humidity is send at a configurable interval minutes and the data is sent using the Wireless MBUS protocol OMS complient. 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 PROBE**

The device supports up to 4 external temperature probes connected to the device. The probes are automatically detected and configured at startup.

## **CONFIGURATION**

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









