TEMPERATURE/HUMIDITY AMR-Wireless M-BUS

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 when mounted in home environment.

PERFORMANCE

The device has a robust design with an tamper detection if opened 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. For maximum performance the device have 2 internal antennas.

TEMPERATURE SENSOR

The on-board temperature sensor is highly accurate with typical accuracy ±0,2.

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, 90 seconds, Encryption ON.

SENSORS

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

HUMIDITY ACC: ±2 %RH at 20-80 % RH.

WARNINGS

TAMPER DETECTION Product opened or removed from the wall

BATTERY Low battery

POWER/LIFETIME

POWER SUPPLY 3.6V Li-SOCI2, AA battery

VOLTAGE 2.4 to 3.6V

LIFESPAN 14 years typical, depending on configuration and

operating temperature.

RADIO 14 dBM output power to 2 differential antennas

BATTERY Soldered or optional battery holder.

GENERAL INFORMATION

STANDARDS 2014/53/EU (RED)

EN 13757-3/4:2013, OMS 4.0.2

TEMPERATURE -40° to +85°

RELATIVE HUMIDITY None condensing

MATERIAL White, ABS

SIZE (W x L x D) 32 x 88,5 x 25,5mm

HUMIDITY SENSOR

The on-board humidity sensor is highly accurate, with typic accuracy ±2%RH.

MEASUREMENTS

Temperature and humidity is send at a configurable interveninutes and the data is sent using the Wireless MBUS protoco OMS complient. This makes the sensor ideal for integration i data collecting systems or drive by solutions.

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

CONFIGURATION

The MBUS mode, transmission interval and encryption can be configured using a USB configuration cable connected to a PC. The device can also in volume be ordered fully preconfigured.

MOUNTING

The device is either mounted with adhesive tape or with screw









