LANSEN

WIRELESS BUILDING TECHNOLOGY

TEMPERATURE
AMR-Wireless M-BUS

DEVICE

The ambient temperature device from Lansen is a plug-and-play room and external temperature 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 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 accurate with typical accuracy ±0,3°.

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 (5 min if ext probe is connected), Encryption ON

SENSORS

TEMPERATURE	RANGE: -40 to +85° ACC: ±0,3 at 0 to + 65°
EXT PROBE	RANGE: 40° to +125° ACC: ±0,5

WARNINGS

TAMPER DETECTION	Product opened or removed from the wall
BATTERY	Low battery

POWER/LIFETIME

POWER SUPPLY	3.6V Li-SOCl2, AA 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
TEMPERATURE	-40° to +85°
RELATIVE HUMIDITY	None condensing
CASING	White, ABS, 25.5 x 105 x 22 mm

DEVICES

LAN-WMBUS-G2-T	Ambient Sensor for temperature
EXT-PROBE-OW	External 2m one wire probe.
LAN-CF-CABLE	USB Configuration cable.

MEASUREMENTS

Temperature and humidity 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 PROBE

The device supports up to 4 external temperature probes connected to the device. If more than 1 temperature cable should be connected an external junction box must be used, so that only one cable is connected to the device. The probes are automatically detected and configured at startup.

CONFIGURATION

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

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