LANSEN
WIRELESS BUILDING TECHNOLOGY

AMR WM-Bus OUTDOOR TEMPERATURE/HUMIDITY

DEVICE
The outdoor ambient temperature and humidity device from Lansen is a plug-and-play temperature and humidity transmitter. The device is made of highly durable PC plastic with highest accuracy on-board temperature and humidity sensor.

PERFORMANCE
The internal radio antenna is optimized for 868Mhz and is tuned for mounting on concrete, wood or plaster. Each device has two antennas in each direction to maximize the range between the meter and the collectors. The battery level is continuously monitored and a low level warning is issued when battery is nearing depletion.

FIRMWARE

MODES	T-mode. Can be custom ordered with C-, T- or S-mode.
INTERVAL	90s. Can be ordered with custom interval (60s - 1hr)
ENCRYPTION	AES128 encryption OMS mode 5, Profile A. Can be ordered with custom configuration.
STANDARD	T1-Mode, 90 seconds. Encryption ON.

SENSORS

TEMPERATURE	RANGE: -40° to +85°
TYP ACC:	±0,2 at 0 to +85° ±0,3 at -40 to +85°
HUMIDITY	ACC: ±2 %RH Even better acc. on request.

WARNINGS

BATTERY	Low battery

POWER/LIFETIME

POWER SUPPLY	3.6V Li-SOCl2, ER17505 battery
VOLTAGE	2.4 to 3.6V
LIFESPAN	16 years typical, depending on configuration and operating temperature.
RADIO	16 dBM output power to 2 differential antennas
BATTERY	Soldered. Can be ordered with 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
COLOR	Signal white
MATERIAL	PC UV stabilized plastic
SIZE (W x H x D)	95 x 65 x 55 mm

DEVICES

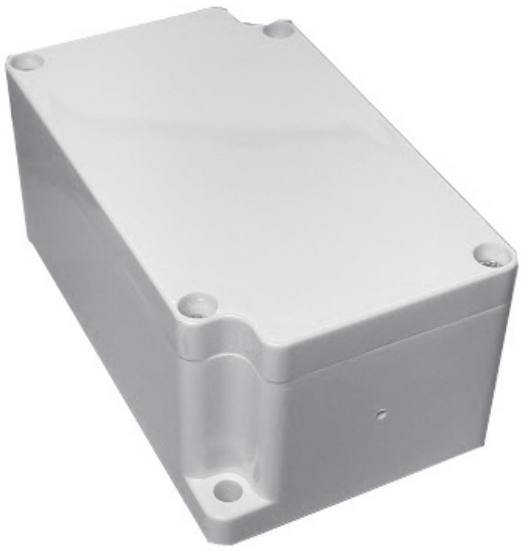
LAN-WMBUS-O-TH	Outdoor temperature and humidity sensor

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

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 preconfigured interval 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 device complies with the OMS 4 synchronize message, sending the data pseudo random to avoid collisions.

INSTALLATION
The device is secured for water raining thanks to a membrane at the bottom of the device. The device should, if possible, still be mounted protected from rain and sunlight. The device is started using a simple magnet so the enclosure does not need top be opened.



OMS® M-Bus wireless

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