

FREEZER TEMPERATURE/HUMIDITY AMR WM-Bus LAN-WMBUS-O-TH-F

DEVICE

The freezer ambient temperature and humidity device from Lansen is a plug-and-play temperature and humidity transmitter optimized for constant operation in really low temperature. 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. 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 C1-A/B, T1 or S1 (selectable on order)

INTERVAL 120s. 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, 120 seconds. Encryption ON.

SENSORS

TEMPERATURE RANGE: -40° to +85°, 0-100 %RH

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-SOCI2, LS17500 battery

VOLTAGE 2.2 to 3.6V

LIFESPAN 14 years typical at -30° Contact us for details.

RADIO 16 dBM output power to 2 differential antennas

BATTERY Soldered.

GENERAL INFORMATION

STANDARDS 2014/53/EU (RED)

EN 13757-3/4:2013, OMS 4.0.2

MATERIAL Signal white PC UV stabilized plastic

SIZE (W x H x D) 95 x 65 x 55 mm

IP 66

OPERATING CONDITIONS

RADIO TRANSMITTER Max: -35° to +85° Recomended -30° to +50°

DEVICES

LAN-WMBUS-O-TH-F Freezer temperature and humidity transmitter

TEMPERATURE SENSOR

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

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 sent 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 waterproof and resistant to raining water 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 to be opened.







