

DEVICE

The freezer ambient temperature device from Lansen is a plug-and-play temperature device optimized for working in really low temperature. The device is made of highly durable PC plastic with high accuracy on-board temperature sensor.

PERFORMANCE

The internal radio antenna is optimized for 868Mhz and is tuned for mounting on any surface. Each device has two antennas in each direction to maximize the range between the meter and 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 120s.
Can be ordered with custom interval (120s - 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°
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°
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
TEMPERATURE -40° to +85°
COLOR Signal white
MATERIAL PC UV stabilized plastic
SIZE (W x H x D) 95 x 65 x 55 mm

DEVICES

LAN-WMBUS-O-T-F Freezer temperature transmitter

TEMPERATURE SENSOR

The on-board temperature sensor is highly accurate with typical accuracy $\pm 0,2^\circ$.

MEASUREMENTS

Temperature 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, i.e., sending data pseudo random to avoid collisions.

INSTALLATION

The device is either mounted using screws or adhesive tape and is started by using a simple magnet, so the enclosure does not need to be opened.

