

# LANSEN

Temperature and humidity transmitter

LAN-MIOTY-C-TH

## DEVICE

This device from Lansen is a plug-and-play ambient temperature and humidity room 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 innovative optical tamper detection function that will alert if the device is opened or closed. A bit in the mioty 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.

## FIRMWARE

MODES mioty ETSI TS-103-357  
ENCRYPTION Network: AES128 encryption

## INTERVAL

SAMPLE 5 min  
TRANSMISSION 30 min

## MIOTY DATA

TEMP & HUMIDITY Current, 15 min ago, avg last 30 min, avg 31 -60 min  
BATTERY Battery voltage & low battery warning (2,6V)  
OPERATING Operating days  
SABOTAGE Sabotage detected (device opened)  
NOT ACTIVATED If device has not been activated yet.

## POWER/LIFETIME

POWER SUPPLY 1 x ER14505 3.6V Li-SOCI2 battery, standard soldered / optional battery holder.  
VOLTAGE 2.0 to 3.6V  
LIFESPAN 14 years expected\*, standard configuration and recommended operating temperature.  
RADIO 14 dBm (25mW) output power to antennas. ERP typical: 5.2 dbm (3.3mW) .  
ANTENNAS 2 antennas for true differential transmission.

## GENERAL INFORMATION

STANDARDS 2014/53/EU (RED)  
MATERIAL White, PC-ABS  
SIZE (W x H x D) 32 x 88.5 x 25.5 mm

## OPERATING CONDITIONS

RADIO TRANSMITTER Max: 0°C to + 85°C. Recommended +5°C to +50°C  
RELATIVE HUMIDITY Non condensing

## TEMPERATURE SENSOR

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

## HUMIDITY SENSOR

The on-board humidity sensor is highly accurate, with typical accuracy  $\pm 2\%RH$ .

## MEASUREMENTS

Temperature and humidity is sent at a preconfigured interval (can in higher volume be customized on order) and the data is sent using the mioty protocol. This makes the sensor ideal for integration in data collecting systems. The data from the device is protected using the AES128 encryption compliant with mioty standard.

## CONFIGURATION

The device can in volume be ordered fully preconfigured.

## MOUNTING

The device is either mounted with adhesive tape or with screws.



\*The expected battery lifetime stated is based on simulations and true measurements at 25 C° and is valid to the best of our ability but not a guarantee. The calculations and measurements can be sent upon request for your reference.