WATTECO



Indoor Temperature Sensor



The Temperature sensor is a SIGFOX[®] wireless sensor operating on battery that measures and transmit over long distance indoor temperature.

APPLICATIONS

- HVAC (Heating, Ventilating and Air Conditioning)
- Building management
- Logistic / storage
- Data centre / IT server room

BENEFITS & KEY FEATURES

- SIGFOX®
- Easy to use and deploy
- Differential data compression for temperature batch report
- Up to 12 years autonomy (data compression mode)
 - Temperature and Humidity measure
 - Range: 0°C/+40°C
 - Accuracy: +/-0,5°C
 - Resolution: 0,1°C

QUALITY & RELIABIITY

- RoHS compliant
- CE Compliant

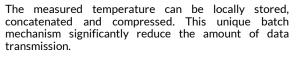
The Indoor Temperature Sensor from nke Watteco is an easy-to-use wireless sensor operating from any wireless network using the SIGFOX® protocol.

The sensor is easy to deploy and maintain :

- NFC tag for identification (Part type, serial number
- and manufacturing number) Magnetic switch to activate/de-activate the sensor

The Indoor Temperature Sensor has the following alarm capabilities:

- ON/OFF
- Low battery voltage
- Min & Max temperature
- Anti-tamper (against opening and detachment).



*Photo not contractual

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Powered through a 3.6V/3600mAh Lithium battery, in data-compressed mode it allows an autonomy up to 12 years when measuring 1 times per hour and transmitting data one time per day.

The configuration of the transmitter can be done at factory or on-site allowing the choice of measurement cycle, measurement, information frame radio-transmission periodicity, alarms threshold values, data compression mode

THE LARGEST IOT PRODUCTS RANGE FOR YOUR PROJECT

nke WATTECO is a European leader in the design and manufacture of intelligent IoT devices to fit to all remote reading and data collection solutions.

nke WATTECO is a LoRa Alliance[®].

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Indoor Temperature Sensor

TECHNICAL CARACTERISTICS

RF TRANSCEIVER	
Frequency (MHz)	EU: 868-870
Transmit Power (dBm)	+14
Receiver Sensitivity (dBm)	-126
FIRMWARE	
Protocol	SIGFOX®
Data encryption	AES128
Measurement cycles	From 1h to 48h in 1h step
Measurement frame transmission cycles	From 2h to 48h in 1h step
Information frame transmission cycles	From 0 day to 30 days in 1day step
Alarm detection	yes or no
Data compression	yes (differential coding) or no
Unified degree days measurement	Activate / de-activate
Alarm level	Battery level: 0,1V to 3,6V by 0,1V step Temperature min and max: 0°C to +40°C by 1°C step
TEMPERATURE MEASURE	
Accuracy (°C)	+/- 0,5
Resolution (°C)	0,1
Range (°C)	0 / +40
POWER	
Power supply	3,6V / 3600mAh lithium battery
Autonomy within a +10°C to +25°C temperature range	12 years: Data compressed/ 1 measure per hour/ 1 transmit per day9 years: Data not compressed/ 1 measure per hour/ 1 transmit per day5 years: Data compressed/ 1 measure every 10mn/ 1 transmit per day
INTERFACE	
NFC Tag	Part number, serial number and manufacturing number
Buzzer Indicator	Network pairing / unpairing & local configuration
Magnetic Switch	ON/OFF
ALARMS	
ON/OFF	Transmitted instantaneously
Low battery	Transmitted at information frame rate
Temperature	Transmitted instantaneously
Anti-tamper	Against opening and detachment; transmitted instantaneously
MECHANICAL FEATURES	
Dimension (mm)	80x80x25
ENVIRONMENTAL	
Operating temperature (°C)	0 / +40
Storage (°C; rH)	+10°C / +30°C ;+20%rH / +60%rH
DIRECTIVES & STANDARD	
EN, 61000-4-2 EN 300-220-1 V2-4-1, EN CE, RoHS recommendation compliant, 20	

ORDERING INFORMATION

REFERENCE	MODEL DESCRIPTION
50-09-037	SIGFOX [®] INDOOR TEMPERATURE SENSOR