







SIGFOXTM VENTILATION SENSOR



The VENTILATION sensor is a SIGFOXTM wireless sensor operating on battery that measures and transmit over long distance air depression in buildings ventilation chambers

APPLICATIONS

- HVAC (Heating, Ventilating and Air Conditioning)
- Outdoor/indoor environment
- Building management and maintenance

BENEFITS & KEY FEATURES

- SIGFOXTM
- Easy to use and deploy
- Up to 12 years autonomy
- Pressure and Temperature (optional) measure
 - Range: 0 / +10kPa;

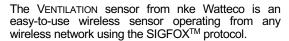
-20°C / +60°C (embedded probe) -40°C / + 90°C (remote probe)

✓ Resolution: 15Pa; 0,2°C

IP55, outdoor

QUALITY & RELIABIITY

- RoHS compliant
- CE Compliant



The sensor is typically installed on the buildings roof, sufficiently close but higher than the ventilation chamber. It should be protected from direct sunlight and rain. A plastic air tube (internal diameter: 6mm) is connected to the ventilation chamber and the sensor

The wireless sensor has the following alarm capabilities:

- ON/OFF
- Low battery voltage
- Min & Max air de-pressure
- Min & Max temperature from embedded or remote NTC probe (optional)

The unit has the optional capability to report every 24 hours the average, minimum, maximum temperature measured that is useful to compute unified degree days which is a typical indicator of energy consumption and costs for heating or cooling. In this mode, the average pressure over 24 hours is also tranmitted



The VENTILATION sensor is easy to use, deploy and maintain:

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

Powered through a 3.6V/3600mAh Lithium battery, it allows an autonomy up to 12 years when measuring pressure 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 frame radio-transmission periodicity, alarms threshold values.

NKE WATTECO, YOUR PARTNER IN SMART SENSORS & ACTUATORS

We are the European leader in designing and manufacturing highly reliable and low power consumption smart sensors, actuators and multiprotocol remote data solutions.



TECHNICAL CARACTERISTICS

U: 868-870 14 126 IGFOX TM ES128 rom 1h to 48h in 1h step
14 126 IGFOX™ ES128 rom 1h to 48h in 1h step
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ES128 rom 1h to 48h in 1h step
rom 1h to 48h in 1h step
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som Ch to 40h in 4h oton
rom 6h to 48h in 1h step
es or no
ctivate / de-activate
attery level: 0,1V to 3,6V by 0,1V step ressure min and max: 0 to +10kPa by 1Pa step emperature (optional) min and max: • -20°C to +60°C by 1°C step (embedded NTC probe) • -40°C to +90°C by 1°C step (remote NTC probe)
/ +10
5
20 / +60 (embedded probe) ; -40 / +90 (remote probe)
2
6V / 3600mAh lithium battery
2 years: Pressure only / 1 measure per hour / 1 transmit per day 0 years: Pressure & temperature / 1 measure per hour / 1 transmit per day
art number, serial number and manufacturing number
etwork pairing / unpairing & configuration
N/OFF
ransmitted instantaneously
ransmitted at data frame rate
ransmitted at data frame rate
4x82x55
P55
20 / +60
20 / +60 0°C / +30°C ; <75%rH
7 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7

EN, 61000-4-2 EN 300-220-1 V2-4-1, EN 301 489 V1-6-1

CE, RoHS recommendation compliant



ORDERING INFORMATION

REFERENCE	MODEL DESCRIPTION
50-09-034	SIGFOXTM VENTILATION SENSOR
50-09-042	SIGFOX TM VENTILATION SENSOR with embedded NTC probe
50-09-066	SIGFOX™ VENTILATION SENSOR with remote NTC probe, 5m cable