







SIGFOXTM ALARM REPORT SENSOR



SIGFOXTM ALARM REPORT SENSOR transforms any dry contact sensor into a remote wireless sensor that monitors industrial equipment status and alarms

APPLICATIONS

- Industry Process control and automation, power line defect detection
- Water Treatment, Agriculture Irrigation –water valves and pumps, alarm status…
- Food production & distribution monitor cooling equipment, fridge door contact status, alarms status...
- HVAC & building management monitor air valves and pumps, heaters/coolers, alarm status, human presence, doors contact status, lights...

BENEFITS & KEY FEATURES

- SIGFOX[™]
- Easy to use and deploy
- 15 years battery autonomy (1 state change report per day)
- P55

QUALITY & RELIABITY

- RoHS compliant
- CE compliant

The ALARM REPORT SENSOR from nke Watteco is a narrow band, long range, low power consumption, high performance and high quality, SIGFOXTM device transforming any dry contact sensor into a wireless alarm sensor that instantaneously transmits any input state change.

If the input state of the ALARM REPORT SENSOR changes more than one time within a time interval limit set by the user, it instantaneously reports an alarm to notify that the monitored equipment is not operating properly.

The ALARM REPORT SENSOR is specifically designed for users looking to remotely monitor any I/O signals from industrial equipment such as pumps, fans, valves, heaters, coolers, motors, generators, lights, door (ON/OFF status, alarms, ...)



The 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 15 years when reporting one I/O state change per day.

The configuration of the transmitter can be done at factory or on-site allowing the choice information frame radio-transmission periodicity and alarms threshold values.

NKE WATTECO, YOUR PARTNER IN SMART SENSORS & ACTUATORS

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



$\begin{array}{c} SIGFOX^{\text{TM}} \\ ALARM \ REPORT \ SENSOR \end{array}$

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RF TRANSCEIVER					
Frequency (MHz)	EU: 868-870				
Transmit Power (dBm)	+14				
Receiver Sensitivity (dBm)	-126				
FIRMWARE					
Protocol	SIGFOX™				
Data encryption	AES128				
Information frame transmission cycles	From 0 day to 30 days in 1day step				
Alarm detection	Always active				
I/O configuration	1: Normally Open / 0: Normally closed				
Alarm level	Battery level: 0,1V to 3,6V by 0,1V step Minimum time between 2 consecutives state change: from 1min to 240min by 1 min step				
INPUT CHARACTERISTICS					
Number of inputs	1				
Impedance (MΩ)	>1				
Capacitance (nF)	1; typical				
Voltage (V)	0 - 32				
Current (μA)	3.5				
Frequency (Hz)	1 - 100				
POWER					
Power supply	3,6V / 3600mAh lithium battery				
Autonomy within a +10°C to +25°C temperature range	15 years: 1 input state change reporting per day				
INTERFACE					
NFC Tag	Part number, serial number and manufacturing number				
Buzzer Indicator	Network pairing / unpairing & configuration				
Magnetic Switch	ON/OFF				
ALARMS					
ON/OFF	Transmitted instantaneously				
Low battery	Transmitted at information frame rate				
Input state change	Transmitted instantaneously				
Monitored device/apparatus	Transmitted instantaneously when 2 consecutives state change are reported within the time interval limit. The time between 2 consecutives state change is configurable.				
MECHANICAL FEATURES					
Dimension (mm)	84x82x85				
IP Class	IP55				
ENVIRONMENTAL					
Operating temperature (°C)	-20 / +50				
Storage temperature (°C)	-10 / +30				
DIRECTIVES & STANDARD					
EN, 61000-4-2 EN 300-220-1 V2-4-1, EN CE, RoHS recommendation compliant	I 301 489 V1-6-1 C € ☒ 🔀				

ORDERING INFORMATION

REFERENCE	DESCRIPTION
50-09-046	SIGFOXTM ALARM REPORT SENSOR