

[E]NSPECTION

Sensori Wireless

IE-WSLR00-THQ

Wireless Temperature – VOC (Volatile Organic Compounds) Probes

The WSLR00THQ wireless probe allows to acquire and to centralize the information regarding the temperature, humidity and air Quality within the environments in which they are installed.

The probe utilizes the transmission technology provided by the LoRa® standard, which guarantees wide coverage, without the need for signal repeaters.



The probes are powered by two 3.6V (AA, 2200/2700 mAh) lithium battery (Li-SOCl₂), replaceable by the user, which typically guarantees 4 years of autonomy. Battery autonomy depends on the distance from the receiver and on the settings of the acquisition intervals of both the sensors and the transmission. All devices can be configurable for Data Logger functionality, i.e. they are capable to store, at configurable intervals, the acquired measurements. The data is saved on the internal Data Flash which can hold 500,000 records.

IE-WSLR00THQ

Temperature, humidity and air quality (VOC) radio probe.

The user interface consists exclusively of LED signals and a Reed contact, but thanks to a PC application with a Wireless LoRa USB key it is possible to enter into the configuration of the device (even remotely).

Technical Data Sheet

General information	
User interface	Activation Reed - Information LED
Antenna	Helical integrated (gain 2.4 dB)
Mounting	Wall mounted with bottom plate

Mechanical	
Operational temperature limit	-30 ... +60 (°C)
Storage temperature limit	-40 ... +70 (°C)
Module container Class	IP30
Container material	ABS self-extinguishing UL 94 VO
Weight	120 (g)
Dimensions	120 x 80 (mm)

Electrical	
Power supply	2 Li-SOCI2 type AA battery (3.6 V, 2200/2700/8500 mAh)
Battery life 1	Typical (with acquisition and transmission every 10 minutes): 4 years in Automatic mode – 7 years in Medium Range mode
Transmission frequency	ISM band 868 Mhz
Transmission power	From 2.5 to 25 mW (Automatically adjusted)
Outdoor distance	10 (Km) on sight extendable with wireless extender
Temperature measurement accuracy	±0,2°C tra 0°...90° (±0,3° -40°...0°)
Temperature measurement range	-40 ... +90 (°C)
Humidity measurement accuracy	± 2% dal 20% al 80% (@25°C) ±3% da 0% a 100%
Humidity measurement range	0% - 100% RH
VOC measurement range	TVOC: 0 – 60'000 ppb
Accuracy	15% of the measured value
Transducer type	MOXSens® siloxane resistance
Front degree of protection	IP30
Rear degree of protection	IP30
Radio disturbances	EN 61000-6 EN 55024:2010-11
Construction standards	CEI

Connectivity	
USB	Available
Wireless - Local	Available for the connection with the configuration and data management software