

## Sensori Wireless

IE-WSLR00TH-THC-THL

### Wireless Temperature, Humidity and Brightness Probes

The WSLR00TH, WSLR00THC and WSLR00THL wireless probes together with the Receivers/Gateway IE-LoRa-GW01 and IE-LoRa-GW02, allow to acquire and to centralize the information regarding the temperature, humidity and brightness of the environments in which they are installed. The probes utilize the transmission technology provided by the LoRa® standard, which guarantees wide coverage, without the need for signal repeaters.



The probes are powered by a 3.6V (AA, 2200/2700 mAh) lithium battery (Li-SOCl<sub>2</sub>), replaceable by the user, which typically guarantees 5 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 have 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-WSLR00THC

Ambient temperature and relative humidity radio probe Accredia Certifiable.

#### IE-WSLR00TH

Ambient temperature and relative humidity radio probe.

#### IE-WSLR00THL

Ambient temperature, relative humidity and brightness 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	-10 ... +65 (°C)
Storage temperature limit	-20 ... +75 (°C)
Module container Class	IP30
Container material	ABS autoestinguente UL 94 V0
Weight	120 (g)
Dimensions	120 x 80 (mm)
Electrical	
Power supply	1 Li-SOCl <sub>2</sub> type AA battery (3.6 V, 2200/2700 mAh)
Battery life 1	Typical (with transmission every 10 minutes): 5 years in Long Range 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	5 (Km)
Temperature measurement accuracy	± 0.2 (°C)
Temperature measurement range	-10 ... +65 (°C)
Humidity measurement accuracy	± 3% (RH)
Humidity measurement range	0% - 100% RH
Total brightness error @ 538nm	15%
Brightness measurement range	0.01 ... 100.000 Lux
Acquisition interval	From 10 seconds to 10 minutes
Storage interval	From 1 minute to 60 minutes
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