[ε] NSPECTION

Sensori Wireless

IE-WSLR00 T-tC

Wireless Temperature Probes

The WSLR00T and WSLR00TC wireless probes, together with the Receivers/Gateway IE-LoRa- GW01 and EI-LoRa-GW02, allow to acquire and to centralize the information regarding the temperature of 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 housed in a self-extinguishing container ABS UL 94 V0, suitable for indoor installation.

The probes are powered by one 3.6V (AA, 2200/2700 mAh) lithium battery (Li-SOCl2), 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 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-WSLR00TC
Sonda radio temperatura ambiente Certificabile Accredia

IE-WSLR00T
Ambient temperature 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 self-extinguishing UL 94 VO
Weight	230 (g)
Dimensions	120 x 80 (mm)

Electrical	
Power supply	1 Li-SOCl2 type AA battery (3.6 V, 2200/2700 mAh)
RTC lithium battery life	Typical (with acquisition and 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)
Acquisition interval	Da 10 secondi a 10 minuti
Storage interval[2]	Da 1 minuto a 60 minuti
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