

Sensori Wireless

IE-WSLR00TE

External temperature probes

The WSLR00TE wireless probes together with the Receivers/Gateway IE-LoRa-GW01 and IE-LoRa-GW02, allows to acquire and to centralize the information of the outdoor building temperature.

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

The probe is housed in an IP66 container in ABS (UL 94 HB) suitable for wall mounting.



The probes are powered by a 3.6V (C, 8500 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 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-WSLR00TE

Outdoor temperature radio probe in IP66 container.

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 ... +65 (°C)
Storage temperature limit	-30 ... +75 (°C)
Module container Class	IP66
Container material	ABS self-extinguishing UL 94 HB
Weight	240 (g)
Dimensions	162 x 82 x 55 (mm)

Electrical	
Power supply	1 Li-SOCl ₂ type C battery (3.6 V, 8500 mAh)
RTC lithium battery life	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	-30 ... +65 (°C)
Acquisition interval	From 10 seconds to 10 minutes
Intervallo di memorizzazione ²	From 1 minute to 60 minutes
Overall degree of protection	IP66
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