



WIRELESS THERMOCOUPLE SENSOR

LR-SS-TG09-EU



CE EN12830



Thermocouple Input

For probes equipped with a miniature TC connector



Long Range Transmission

Communication distance between gateway and sensor up to 5 km



Intuitive LCD Indication

LCD presents all key information including checking current temperature, alarm status, signal strength, battery power



Built-in Alarm

Equipped with buzzer to alarm locally when the measurement exceeds the limits

APPLICATIONS



Biochemical laboratory



Chemical plant



Pharmaceutical



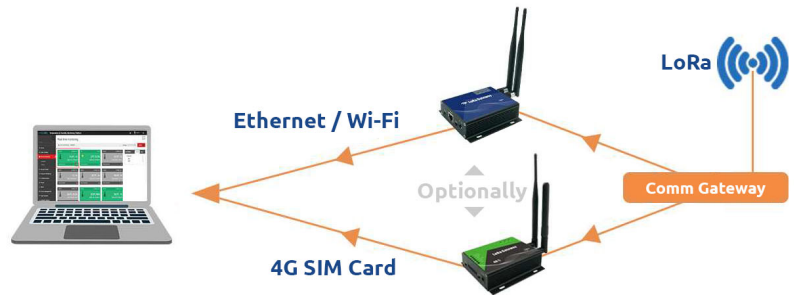
Warehouse

WIRELESS THERMOCOUPLE SENSOR

HOW WIRELESS SENSOR WORKS



Cloud Platform



SENSOR SPECIFICATIONS: LR-SS-TG09-EU

Dimensions:	183 x 83 x 35 mm
Weight:	135 g
Protection Level:	IP54
Battery:	3.6V / 4000 mAh (user replaceable)
Battery Life:	3 years (recording every 15 mins)
Operational environment:	-30°C to 60°C; 0% RH to 85 %RH (non condensing)
TC Input Accuracy:	±0.3 % + 0.4°C
TC Input Range:	0°C to 1000°C (thermocouple type K)
RF Frequency:	868 MHz
Communication Mode:	LoRa (up to 5 kilometers, open area)
Transmit Power:	20 dbm (adjustable)
Transmit Interval:	1 min to 1440 mins (user definable), default 15 mins
Stand-by Current:	< 5uA

FEATURES

- 50000 recordings can be stored into device flash memory (when the connection to the gateway or cloud is unavailable) and unlimited recordings storage on cloud based platform
- Configurable alarm thresholds, uploading interval and measurement units
- Configurable alarm buzzer for local alarm
- Equipped with LCD display screen, easy to check current status, temperature and humidity measurements, alarm status, signal strength and battery power
- Export measurements data as PDF or Microsoft Excel format

GATEWAY SPECIFICATIONS: LR-GW-WIFI-EU / LR-GW-LTE-EU

Dimensions:	112 x 105 x 27 mm
Weight:	270 g
Power Supply:	12 Vdc
External Antennas:	2.4 GHz or LTE / 868 Mhz
Communication Mode:	LoRa
Operational Temperature:	-20 to 60°C
Operational Humidity:	5% RH to 95% RH (non-condensing)
RF Frequency:	868 MHz
Maximum Range in Open Area:	5 Km
Network Interface:	Cable (RJ-45)+ Wi-Fi (2.4 GHz) / 4G LTE SIM
Transmission Interval:	10s to 6000s (user definable)
Receiving Sensitivity:	-148 dBm

FEATURES

- Communication with sensors up to 5 km away (open area)
- Up to 100 sensors can be connected to one gateway
- Simple configuration on a PC via USB interface
- Support for wired (RJ-45) and wireless (Wi-Fi) transmission mode
- Support for data transmissions in 4G LTE networks

