

LoRa Monitoring System

24/7/365 Warehouse Management

Temperature Measurement
5km Long Distance
3 Years Battery Life



Features:

- * **Maximum 5km long distance measurement**
- * **Backup battery for emergency use**
- * **100pcs sensor tags could be recognized at a time**
- * **Easily USB/SMS configuration**
- * **Temperature and humidity alarm notification**
- * **Low battery level notification**
- * **RS485/Modbus-RTU/audible and visual device supported**
- * **LED light indicating for different status**

LoRa Gateway



Specifications:

Dimension	112mm*105mm*27mm (4.41in*4.13in*1.06in)
N.W	270g
Inner Lithium Battery	Built-in 3.7V/850mAh (rechargeable)
Power Supply	DC12V
Exterior RF Antenna	Receive RF signal better
Maximum Range in Open Area	5km
Working Temperature Condition	-20°C ~ +60°C
Working Humidity Condition	5%RH ~ 95%RH (non-condensing)
GPRS Frequency	850/900/1800/1900MHz
RF Frequency	433/470/868/915MHz (optional)
Modulation	LoRa
Interface	GPRS/RS485/Modbus - RTU
Transmit Interval	1min ~ 60mins (user definable)
Sensitivity of Receiving	-148dBm
Low Voltage Alarm	Yes (user definable)
Temperature Alarm	Yes (user definable)

Features:

- * Large battery works for up to 3 years
- * High precise temperature sensor
- * Temperature alarm notification
- * Low battery level notification
- * Button trigger for quick data testing
- * LED light indicating for different status
- * Communication distance between receiver and sensor maximum up to 5km
- * With LED display

LoRa Temperature Sensor



Dimension	106mm*57mm*33mm (4.17in*2.24in*1.30in)
N.W	135g
Inner Lithium Battery	Built-in 3.6V/4000mAh (non-rechargeable)
Battery Working Life	3 years (in 15mins interval)
Accuracy of Temp	Temp: $\pm 0.5^{\circ}\text{C}$ (-10 ~ 85 $^{\circ}\text{C}$), $\pm 0.1^{\circ}\text{C}$ (other)
Maximum Range in Open Area	5km
Operating Temperature Range	-30 $^{\circ}\text{C}$ ~ +60 $^{\circ}\text{C}$
Memory Capacity	50000
RF Frequency	433/470/868/915MHz (optional)
Modulation	LoRa
Transmit Power	20dbm (adjustable)
Transmit Interval	1min ~ 1440mins (user definable)
Low Voltage Alarm	Yes (user definable)
Temperature Alarm	Yes (user definable)
Standby Current	<5uA
Waterproof Level	IP54

Working principle:



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