

# LoRa Monitoring System

## 24/7/365 Warehouse Management

Temperature and Humidity Measurement  
5km Long Distance  
3 Years Battery Life



### Features:

- \* Backup battery for emergency use
- \* 100pcs sensor tags could be recognized at a time
- \* Easily USB configuration
- \* Temperature and humidity alarm notification
- \* Low battery level notification
- \* LAN/WIFI transmission mode supporting
- \* LED light indicating for different status
- \* Communication distance between receiver and sensor maximum up to 5km

### LoRa Gateway\_WIFI



### 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
Operating Temperature Condition	-20°C ~ +60°C
Operating Humidity Condition	5%RH ~ 95%RH (non-condensing)
RF Frequency	433/470/868/915MHz (optional)
Modulation	LoRa
Interface	LAN/WIFI
Transmit Interval	10s-6000s (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 and humidity sensor
- \* Easily USB configuration
- \* Temperature and humidity 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

## LoRa Temp & RH Sensor



## Specifications:

Dimension	106mm*57mm*33mm (4.17in*2.24in*1.30in)
N.W	135g
Inner Lithium Battery	Built-in 3.6V/3500mAh (non-rechargeable)
Battery Working Life	3 years (in 15mins interval)
Accuracy of Temp and Humidity	Temp: $\pm 0.3^{\circ}\text{C}$ (0 ~ 60 $^{\circ}\text{C}$ ), $\pm 0.3 \sim 0.7^{\circ}\text{C}$ (other) Humidity: $\pm 3\%$ (20 ~ 80%), $\pm 4\%$ (other)
Exterior RF Antenna	Receive RF signal better
Maximum Range in Open Area	5km
Operating Temperature Range	-30 $^{\circ}\text{C}$ ~ +60 $^{\circ}\text{C}$
Operating Humidity Condition	0%RH ~ 85%RH (non-condensing)
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/RH Alarm	Yes (user definable)
Standby Current	<5uA
Waterproof Level	IP54

## Working Principle:



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