

# Datasheet

V0.1

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## Wireless Outdoor Temperature Humidity Sensor

# **History**

Version	Date	Note
V0.1	2017-09-26	Initial Release

#### Notes:

Hardware Version: V0.2

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### **Wireless Outdoor Temperature Humidity Sensor**

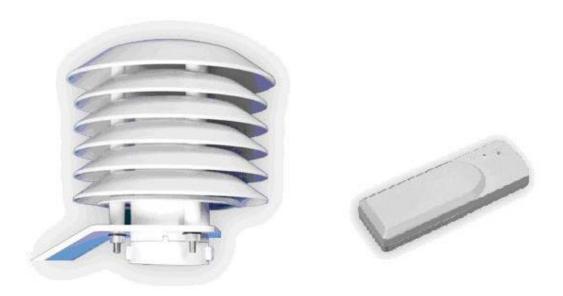


Fig.1 R712 Appearance

#### **Introduction**

R712 is a long-range wireless temperature and humidity device based on the LoRaWAN open protocol (Class A). The R712 is mainly used to detect the temperature and humidity in outdoor air, and also carrying a waterproof housing. It collects data over LoRa network and sends it to devices to be shown, fully compatible with LoRaWAN protocol.

## **Electric**

Input power	2 x 1.5V AA batteries
operating voltage	DC 2.1V~3.6V
Standby current	12uA/3V
Transmitting current (max)	120mA/3.6V
Receiving current (max)	11mA/3.6V



## Wireless Outdoor Temperature Humidity Sensor

# **Frequency**

Frequency range	868MHz 915MHz
	923MHz
TX power	19dBm
Rx sensitivity	-121dBm
	(Frequency deviation=5kHz,Bit Rate=1.2kb/s)
Antenna type	Build-in antenna
Communication range	2km
Data transfer rate	1.2~50kbps
Spread technique	FSK/OOK

# **Physical**

Dimension	L:112mm*W:34mm*H:17mm
Working Temp	$-10^{\circ}\text{C} - 50^{\circ}\text{C}$
Storage Temp	-40°C − 85°C
Temperature Detecting Range	-10°C∼50°C
Temperature Accuracy	±0.5℃ @25℃
Humidity Detecting Range	5%RH~95%RH
Humidity Accuracy	±4.5%RH @25℃