

Datasheet

V0.3

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History

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

Notes:

Hardware Version: V0.2

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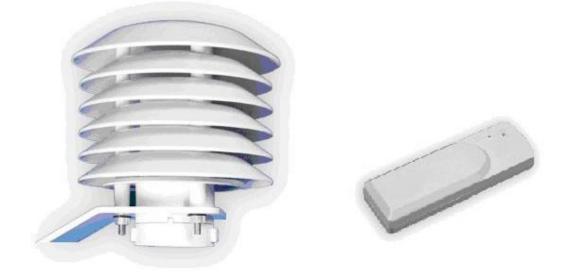


Fig.1 R712 Appearance

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 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	$DC 2.4V \sim 3V$
Standby current	12uA/3V
Transmitting current (max)	120mA/3.6V
Receiving current (max)	11mA/3.6V



Frequency

TX Power	19dBm±1dBm
Rx Sensitivity	-136dBm (LoRa, Spreading Factor=12, Bit Rate=293bps) -121dBm (FSK,Frequency deviation=5kHz, Bit Rate=1.2kbps)
Antenna Type	Build-in antenna
Communication Range	Up to 10km, the actual transmission distance depends on the environment.
Data Transfer Rate	0.3kbps~50kbps
Spread Technique	LoRa/FSK
Available Frequency	EU863-870, US902-928, AU915-928KR920-923, AS923, CN470-510 Configured before shipment

Physical

Dimension	L:112mm*W:34mm*H:17mm
Working Temp.	$-20^{\circ}C - 55^{\circ}C$
Storage Temp.	$-40^{\circ}C - 85^{\circ}C$
	<90% RH (no condensation)
Temperature Detecting Range	-20°C~55°C
Temperature Accuracy	±1°C @25°C
Humidity Detecting Range	10%RH~90%RH
Humidity Accuracy	±4.5%RH @25°C