

Datasheet

V0.3

NETVOX TECHNOLOGY CO., LTD.

Add: No. 21-1 Sec. 1 Chung Hua West Road, Tainan, Taiwan

Tel: +886-6-2617641, 2654878

Fax: +886-6-2656120

<http://www.netvox.com.tw>

History

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

Notes:

Hardware Version: V0.2

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Wireless 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 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~3V
Standby current	12uA/3V
Transmitting current (max)	120mA/3.6V
Receiving current (max)	11mA/3.6V

Wireless Temperature Humidity Sensor**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°C — 55°C
Storage Temp.	-40°C — 85°C
Working Humidity	<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