

Datasheet

V0.1

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

Copyright©Netvox Technology Co., Ltd.

This document contains proprietary technical information which is the property of NETVOX Technology and is issued in strict confidential and shall not be disclosed to others parties in whole or in parts without written permission of NETVOX Technology.

The specifications are subjected to change without prior notice.



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°C — 50°C
Storage Temp	-40°C — 85°C
Temperature Detecting Range	-10°C ~ 50°C
Temperature Accuracy	±0.5°C @25°C
Humidity Detecting Range	5%RH~95%RH
Humidity Accuracy	±4.5%RH @25°C