

# Datasheet

Rev. 0.1

***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

<b>Version</b>	<b>Date</b>	<b>Note</b>
0.1	2017-12-08	Initial Release

### Notes:

Hardware version V0.1

### 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 R718A Appearance

## Temperature and Humidity Sensor for Low Temperature Environment

### Introduction

R718A, mainly used to detect the temperature and humidity at low temperature environment such as the freezer air. It collects data over LoRa network and sends it to devices to be shown, fully compatible with LoRa protocol.

### Main features

- Compatible with LoRa protocol.
- 2 x 3.6V ER14505 AA batteries
- Capable to detect the temperature and humidity at low temperature environment

### Electric

Input power	2 x 3.6V ER14505 AA batteries
Standby current	20uA
Transmitting current (max)	120mA/3.3V
Receiving current (max)	11mA/3.3V

### 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	LoRa/FSK/OOK

**Temperature and Humidity Sensor for Low Temperature Environment****Physical**

Dimension	L:86.2mm*W:84mm*H:33.8mm
Working Temp	-10°C ~ 50°C
Storage Temp	-40°C ~ 85°C
Temperature Detecting Range	-40°C ~ 60°C
Temperature Accuracy	±0.3°C @25°C
Humidity Detecting Range	0%RH ~ 80%RH
Humidity Accuracy	±2%RH @25°C