

# 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

Version	Date	Note
0.1	2017-12-15	Initial release

### Notes:

Hardware Version:

61Z7266801V0.3

61Z7266802V0.3

61Z7266803V0.2

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Fig.1 R72716 Appearance (Image shown is for illustration purposes only. Actual product may vary.)

## Introduction

R72716 carrying temperature and humidity sensors that can detect and send the environment temperature and humidity data with wireless communication, compatible with LoRa protocol standards. R72716 carrying PM2.5 dust sensor which can obtain the concentration of suspended particulate matter in the air per unit volume.

## Main Features

- Temperature and humidity detection
- PM2.5 dust sensor
- LoRa protocol

## Electric

Power supply	Adapter DC powered (12V/1.5A)
Working voltage	40mA/12V(DC)
RX current	11mA @3.3V
TX current	120mA @3.3V
Particle measurement range	0.3~1.0; 1.0~2.5; 2.5~10 微米 (um)
Particle mass concentration Effective range (PM2.5 standard value)	0~500 (μg/m3)
Temperature measurement range	0°C — 60°C
Temperature measurement accuracy	+/-0.5°C @25°C
Humidity measurement range	10%RH---90%RH
Humidity measurement accuracy	+/-4%RH @25°C

## Frequency

Frequency Range	868MHz , 915MHz , 923MHz ( Note : must be configurated before shipping )
TX power	19dBm ( Typical )
Rx sensitivity	-121dBm (Frequency deviation=5kHz, Bit Rate=1.2kb/s)

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Build-in antenna	Build-in antenna
Communication range	2km (Typical output power)
Data transfer rate	1.2~50kbps
Spread technique	LoRa/FSK/OOK

## Physical

Dimension	350mm*220mm*220mm
Working Temp	-10°C ~ +50°C
Storage Temp	-40°C ~ +85°C