



netvox R716S Portable LoRa Field Signal Meter User Manual

[Home](#) » [netvox](#) » netvox R716S Portable LoRa Field Signal Meter User Manual 

Contents

- [1 netvox R716S Portable LoRa Field Signal Meter](#)
- [2 Introduction](#)
- [3 Appearance](#)
- [4 Main Features](#)
- [5 Set up Instruction](#)
- [6 Application](#)
- [7 Important Maintenance Instruction](#)
- [8 Documents / Resources](#)
 - [8.1 References](#)
- [9 Related Posts](#)

netvox[®]

netvox R716S Portable LoRa Field Signal Meter



Copyright©Netvox Technology Co., Ltd.

This document contains proprietary technical information which is the property of NETVOX Technology. It shall be maintained in strict confidence and shall not be disclosed to other parties, in whole or in part, without written permission of NETVOX Technology. The specifications are subject to change without prior notice.

Introduction

R716S is developed based on LoRa technology to detect the network signal of the LoRa network. R716S can detect the LoRa signal strength of the scanned area and display the detected data through LCD.

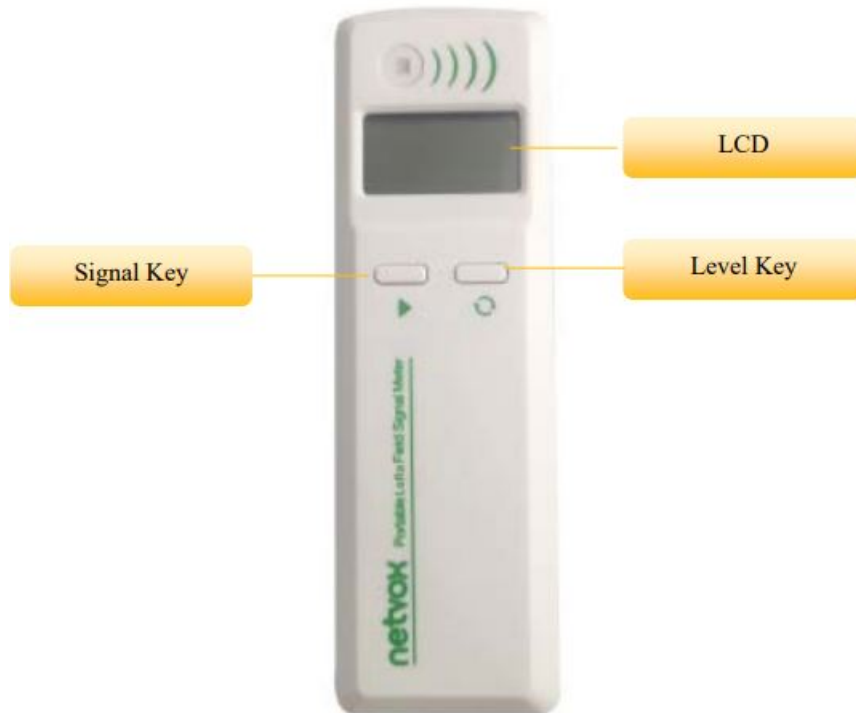
LoRa Wireless Technology:

LoRa is a wireless communication technology dedicated to long distance and low power consumption. Compared with other communication methods, LoRa spread spectrum modulation method greatly increases to expand the communication distance. Widely used in long-distance, low-data wireless communications. For example, automatic meter reading, building automation equipment, wireless security systems, industrial monitoring. Main features include small size, low power consumption, transmission distance, anti-interference ability and so on.

LoRaWAN:

LoRaWAN uses LoRa technology to define end-to-end standard specifications to ensure interoperability between devices and gateways from different manufacturers.

Appearance



Main Features

- Apply SX1276 wireless communication module
- 2* AA batteries (1.5V / section)
- Detect wireless signal strength
- The LCD screen
- Compatible with LoRaWANTM Class A
- Frequency hopping spread spectrum technology
- Low power consumption and long battery life

Battery Life:

- Please refer to web: http://www.netvox.com.tw/electric/electric_calc.html
- At this website, users can find battery life time for variety models at different configurations.
 1. Actual range may vary depending on environment.
 2. Battery life is determined by sensor reporting frequency and other variables.

Set up Instruction

Power On

R716S uses 2 AA batteries to power on.



R716S is a power-saving device. After powering on, it will light up and display . Then it starts to search the network automatically. If it does not join to the network successfully, "noNE" will be displayed. If it joins to the network successfully, the current signal value will be displayed and the signal value will be updated in real time. If there is no operation within 30 seconds, the screen will turn off and enter sleep mode.

Manual Activation

Press the "signal key" or "level key" once to activate the device. After activating the device, the screen lights up and displays the last displayed result. After the device is activated, if there is no operation within 30 seconds, the screen will turn off and enter sleep mode. If it is activated again within 30s after the previous activation, the device starts to update the signal value in real time.

Function Key

The device can detect the signal strength and display signal level of the scanning area.

1. Detect Signal Strength:

Press the signal key, the LCD will display the current detected signal strength and update the signal value in

real time.

2. Display Signal Level:

Press the level key, the LCD will display the current signal level and update the level value in real time.

LCD Interface

R716S display four digits.

1. Press the signal key, and it will display the signal strength in four digits.
2. Press the level key, and it will display the signal level in the fourth digit.

The Range Of Signal Strength Level:

RSSI	≤ -100	≥ -99	≥ -93	≥ -89	≥ -86	≥ -83	≥ -80	≥ -75	≥ -70	≥ -55
Signal Level	0	1	2	3	4	5	6	7	8	9



Sleep Mode

1. After the device is powered on, if there is no operation within 30 seconds, it will enter sleep mode.
2. After the device wakes up, the last value will be displayed. If there is no operation within 30s, it will enter sleep mode.

Command

After the device is powered on and automatically detects the signal value, the device will send a command every 5 seconds.

After the signal is detected, each sent command corresponds to a replied command.

If the device is in the detection state, the command will be sent.

If the device is activated or in the sleep mode, the command will not be sent.

Low Voltage Warning

When the device voltage is less than or equal to 2.4V, “!” will be displayed at the top of the screen to remind of the low voltage.

Application

This device is mainly suitable for detecting the signal strength of gateway coverage
If multiple networks are in the same range, it may be misjudged.

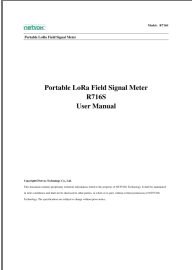
Important Maintenance Instruction

Kindly pay attention to the following in order to achieve the best maintenance of the product:

- Keep the device dry. Rain, moisture, or any liquid might contain minerals and thus corrode electronic circuits. If the device gets wet, please dry it completely.
- Do not use or store the device in dusty or dirty environment. It might damage its detachable parts and electronic components.
- Do not store the device under excessive heat condition. High temperature can shorten the life of electronic devices, destroy batteries, and deform or melt some plastic parts.
- Do not store the device in places that are too cold. Otherwise, when the temperature rises to normal temperature, moisture will form inside, which will destroy the board.
- Do not throw, knock or shake the device. Rough handling of equipment can destroy internal circuit boards and delicate structures.
- Do not clean the device with strong chemicals, detergents or strong detergents.
- Do not apply the device with paint. Smudges might block in the device and affect the operation.
- Do not throw the battery into the fire, or the battery will explode. Damaged batteries may also explode.

All of the above applies to your device, battery and accessories. If any device is not working properly, please take it to the nearest authorized service facility for repair.

Documents / Resources

	netvox R716S Portable LoRa Field Signal Meter [pdf] User Manual R716S Portable LoRa Field Signal Meter, R716S, Portable LoRa Field Signal Meter, LoRa Field Signal Meter, Field Signal Meter, Signal Meter, Meter
---	--

References

- [🌐 ÉÖ°öj£i£j£](#)