Wireless Portable LoRa Field Signal Meter R716S Data Sheet

Wireless Sensor Network Based on LoRa Technology

Fig. R716S appearance
(Please subject to the actual object)

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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.

Main Characteristic

• Apply SX1276 wireless communication module

• Detect LoRa signal strength

• Compatible with LoRaWAN^{TM} Class A

• Frequency Hopping Spread Spectrum (FHSS)

• Configuring parameters via third-party software platforms, and reading the data and setting alarms

  via SMS text and email (optional)

• Applicable to the third-party platforms: Actility/ ThingPark, TTN, MyDevices/Cayenne

Application

• LoRa signal strength

• Other

Electric

Power Supply	2 AA size alkaline batteries (1.5 V/ section)
Operating Voltage Range	2.3V to 3V
Low Battery Threshold	2.4V
Standby Current	28μA

Wireless Portable LoRa Field Signal Meter

Frequency

Frequency Range	863MHz-928MHz 470MHz-510MHz
TX Power	US915 20dbm AS923 16dbm AU915 20dbm CN470 19.15dbm EU868 16dbm KR920 14dbm IN865 20dbm
Receiving Sensitivity	-136 dBm (LoRa, Spreading Factor = 12, Bit Rate = 293bps) -121 dBm (FSK, Frequency deviation = 5kHz, Bit Rate = 1.2kbps)
Antenna Type	Built-in antenna
Communication Distance	10 km (The actual transmission distance depends on the environment.)
Data Transfer Rate	LoRa: 0.3kbps～50kbps FSK: 1.2kbps～300kbps
Modulation Method	LoRa / FSK (Note: choose one of them)
Supportable LoRaWAN Band	EU863-870, US902-928, AU915-928, KR920-923, AS923-1, AS923-2, AS923-3, IN865-867, CN470-510 (Note: The frequency band is optional and needs to be configured before shipment.)

Physical

Dimension	L: 112 mm* W: 34 mm* H: 17 mm
Environment Temperature Range	-20℃ ～ 55℃
Environment Humidity Range	<90% RH (No condensation)
Storage Temperature Range	-40℃ ～ 85℃