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# **Wireless mA Current Meter Interface, 4~20mA**

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Wireless Sensor Network Based on LoRa Technology



## **R718KA**

# **Data Sheet**

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## Wireless mA Current Meter Interface, 4~20mA

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### Introduction

This device is used to detect signal 4mA-20mA equipment, which uses SX1276 wireless communication module. R718KA can detect 4mA-20mA signal, and add the detection signal data to the gateway, and the collected data will be displayed in data center.

### Main Characteristic

- Adopt SX1276 wireless communication module
- Compatible with LoRaWAN™ Class A
- Improved interference immunity
- The base is attached with a magnet that can be attached to a ferromagnetic material object
- Frequency hopping spread spectrum (FHSS)
- Configuration parameters can be configured through third-party software platforms, data can be read and alarms can be set via SMS text and email (optional)
- Applicable to the third-party platforms: Actility/ThingPark, TTN, MyDevices/Cayenne
- Low power consumption and long battery life

Note:

Battery life is determined by the sensor reporting frequency and other variables, please refer to [http://www.netvox.com.tw/electric/electric\\_calc.html](http://www.netvox.com.tw/electric/electric_calc.html)

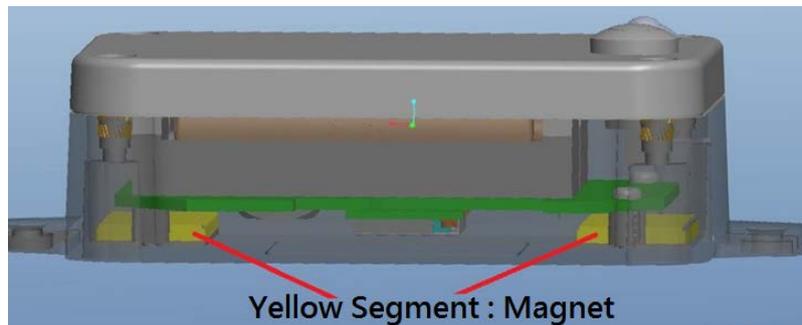
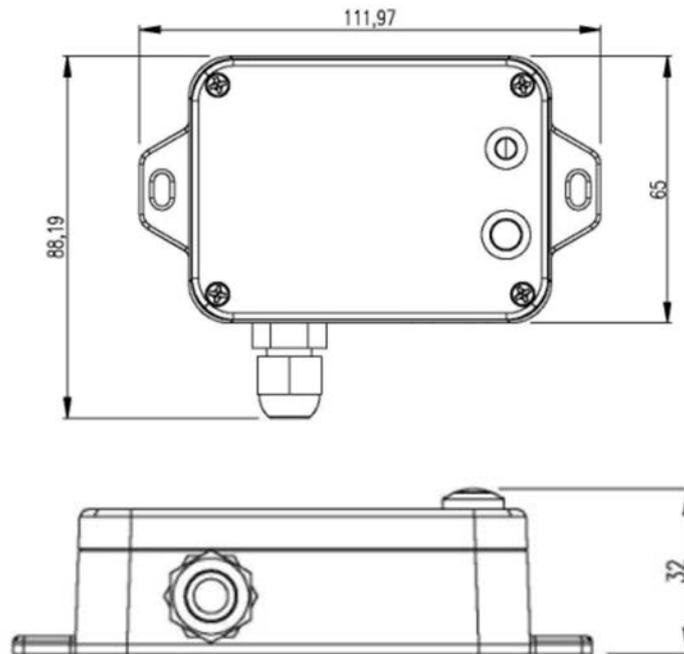
On this website, users can find battery life of various models in different configurations.

### Application

- Sensing
- Measuring device
- Instrumentation
- Others

**Wireless mA Current Meter Interface, 4~20mA**

**Dimension**



**Electric**

Input Power	2 x 3.6V ER14505 AA lithium batteries (3.6V 2400mah/section)
Standby Current	21uA
Wakeup Current	6.3mA/ 3.3V
Transmitting Current (max)	120mA/ 3.3V
Receiving Current (max)	11mA/ 3.3V
Battery Measurement Accuracy	± 0.1V
Low Voltage Threshold	3.2V

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**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	Build-in antenna
Communication Distance	10 km (Visible linear obstacle-free transmission distance, actual transmission distance depending on the environment.)
Data Transfer Rate	0.3kbps ~ 50kbps (LoRa) 1.2kbps ~ 300kbps (FSK)
Modulation	LoRa / FSK (Note: choose one of them)
Supportable LoRaWAN Frequency	EU863-870,US902-928,AU915-928,KR920-923, AS923-1,AS923-2,AS923-3,IN865-867,CN470-510 (Note: optional, to be done in the factory configuration)

**Physical**

Dimension	L: 112 mm x W: 65 mm x H: 32 mm
Weight	141g
Environment Humidity Range	<90 %RH (No condensation)
Operating Temperature	-20°C to 55 °C
Storage Temperature	-40°C to 85 °C