

Wireless Liquefied Petroleum Gas Detector

Wireless Sensor Network Based on LoRa Technology



RA02D1 Datasheet

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Wireless Liquefied Petroleum Gas Detector

Introduction

RA02D1 is a liquefied petroleum gas detector. It can detect the LPG concentration in the environment, and sound alarm when the concentration exceeds the default value.

Features

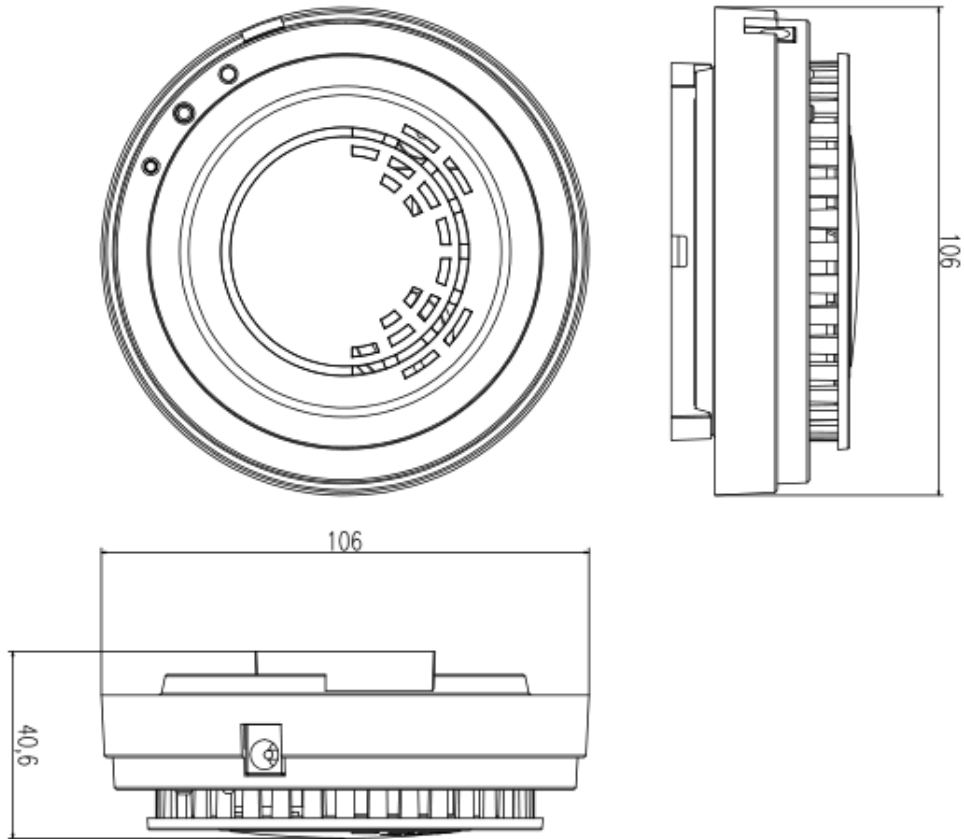
- DC12V power supply
- SX1276 wireless communication module
- Liquefied petroleum gas detection
- Sound alarm as temperature over 60°C

Applications

- Residential buildings and industrial monitoring
- Others

Wireless Liquefied Petroleum Gas Detector

Dimensions



Electrical specifications

Electric

Input Power	DC 12V
Operating Current	<150mA
Alarm Decibel Value	85dB (3 meters away)
Liquid Petroleum Gas Measurement Range	500 –10000 ppm

Wireless Liquefied Petroleum Gas Detector
Frequency

Frequency Range	863MHz-928MHz 470MHz-510MHz
TX Power	US915 20dbm AS923 16dbm AU915 20dbm CN470 19.15dbm EU868 16dbm KR920 14dbm IN865 20dbm
Rx Sensitivity	-136dBm (LoRa, Spreading Factor=12, Bit Rate=293bps) -121dBm (FSK, Frequency deviation=5kHz, Bit Rate=1.2kbps)
Antenna Type	Build-in antenna
Communication Range	10 km Note: The transmission distance depends on the environment.
Data Transfer Rate	LoRa: 0.3kbps – 50kbps FSK: 1.2kbps – 300kbps
Modulation	LoRa / FSK
Available Frequency	EU863-870, US902-928, AU915-928, KR920-923, AS923-1, AS923-2, AS923-3, IN865-867, CN470-510 (Note: Configured before shipment)

Physical Properties

Dimensions	D:106 mm x H:40.6mm
Ambient Temperature Range	-20°C – 55°C