

LoRaWAN Smoke Detector

Product Brief

Description

MSD4901 smoke detector is a smart product which realizes fire prevention and detect by monitoring the concentration of the smoke. Accurate and sensitive reaction makes it safe and reliable.



Features

- Optical smoke detector.
- LoRaWAN compliant
- Frequency : US915Mhz/AS923Mhz/EU868Mhz
- Self- diagnostic sensor test.
- Low power consumption.
- Low battery warning signal.
- Temperature compensation.
- Analogue sensitivity value output.
- Part function (Test key, LED or Buzzer)can be used for RF by UART interface.
- 4 PIN connector connecting for RF board.
- Capable of connecting with wireless system control panel.

LoRaWAN Smoke Detector

Product Brief

Specification

Item	Optical smoke detector
Dimensions	72 * 21 *262 (mm)
Sensitivity	Smoke: EN14604、 UL217
Sound Level	85dB/3M
Rating Voltage	DC 3V,DC 2.6~2.7 Low voltage
Standby Current	25uA
Start Current	5mA
Alarm Current	120mA(max)
Operating Humidity	5%~90%
Operating Temperature	-10°C~50°C
Dimensions	120 X 52.45 mm
Smoke Sensitivity range	EN14604 0.105dB/m~0.165dB/m
Smoke Sensitivity range	UL217 1.6%/ft~3.2%/ft

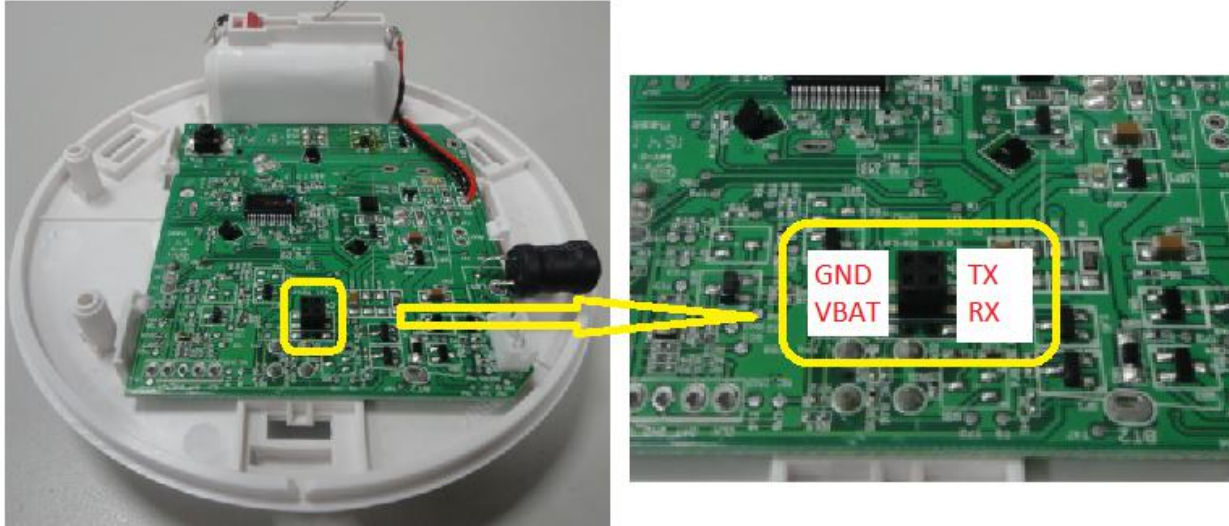
DC3V battery Specification

Item	CR123A for RF	L91 1.5V AA for detector
Lithium Battery		
Manufacturer	Panasonic	Energizer
Substitute item		N/A
Manufacturer	Duracell	/
Capacity	1400mah	3000mah
Dimension	17*34.2mm	50.5*14.5mm
Weight	17g	14.5g*2
Low battery	2.6~2.7V	2.6~2.7V
Contacts	Removable	No-Removable
Battery life caculate	Max=4 Years Min=3 Years	Max=12 Years Min=11 Years

LoRaWAN Smoke Detector

Product Brief

UART Interface



PIN name	Description
TX	Detector transmits data
RX	Detector receives data
VBAT	RF module power
GND	RF module ground

UART setting	
Baud rate	9600 bps
Data bits	8
Stop bit	1
Check bit	None