



Parameters

Principle	NDIR
Range	0 ~ 6.0%vol SO ₂ F ₂
Sampling Mode	Pumping
Response Time	≤ 8 s (@500 ml/min)
Recovery Time	≤ 8 s (@500 ml/min)
Long-term Stability*	testing
Temperature	-10 °C ~ 50 °C
Tolerance	± 150 ppm (0 ~ 2.0%vol)
(Calibrated @	± 1000 ppm (2.0%vol ~ 6.0%vol)
3.0%vol)	
Zero Temp. Drift	± 300 ppm
Resolution	5 ppm/sec @ 3000 ppm
Reading Unit	ppm
Detection Limit	60 ppm
Reading Refresh Rate	16 Hz

* Long-term stability: 28 days of zero drift measured in clean air of 0 ~ 90% RH, 0 ~ 35 °C

Mechanics

Optic Path	Steel
Circuit Board	FR4 / Lead-free HASL
Solder	Sn / Ag / Cu
Mounting Plate	ABS

Applications

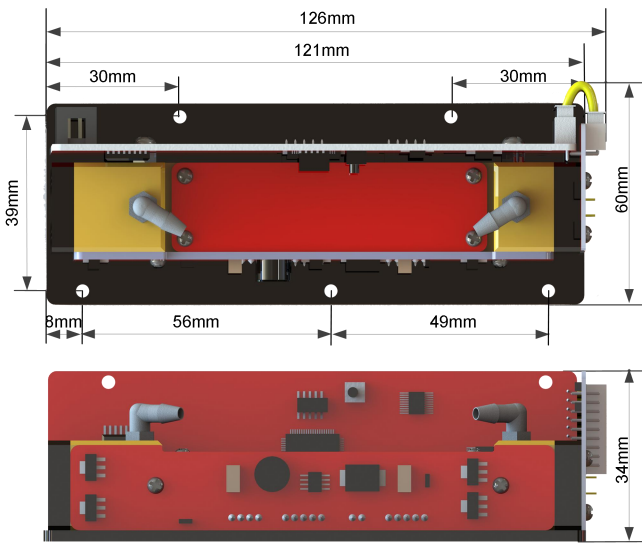
- Fumigation monitoring

Merits

- Small size
- Fast response
- High reading refresh rate
- RS485 modbus RTU

Dimensions

- Length: 126 mm ± 1 mm
- Width: 60 mm ± 1 mm
- Height: 34 mm ± 1 mm
- Weight: 208 g ± 5 g
- Screw Hole Diameter: 3 mm

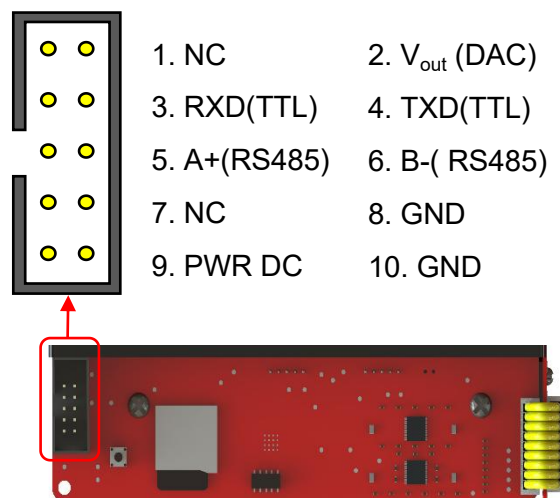


DATASHEET

Electrical Parameters

Input Voltage	9 ~ 24 VDC (#9 pin)
Operating Current	< 0.15 A @9 VDC
Power	< 1 W for Average < 1.5 W @ Peak
Warm-up Time	3 minutes (± 100 ppm @ 0 ppm) 60 minutes (± 60 ppm @ 0 ppm)
Output Voltage	0.4 ~ 2.0 VDC (#2 pin) (0.3 ~ 0.4 V for negative reading)
Warranty	18 months*

Connector Definition



* Communication protocol is modbus RTU.
ID can be modified in SD card.

Application Condition

Prefer Condition	Room temperature, dry, clean
Safety	None explosion-proof design
Humidity	0% RH ~ 85% RH (No Condensation)
Flow Rate	300 ~ 800 ml/min
Pressure	0.5 ~ 1.5 ATM (Ambient air pressure measured, without pressure compensation)

*Non-warranty Case:

- Polluted by condensation, water or dust; Dust and water removing is strongly suggested;
- Damaged by falling, hitting, disassembling, etching or over-loading;
- Label has been torn.

Accessories Included

Tygon Tube

- Length 50 mm × 2
- Diameter 3.2 mm × 6.4 mm
- Polyethylene, transparent

Ribbon Cable

- Length 200 mm × 1
- 10-pin, 28 AWG, gray
- Female connector, 2 × 5
- 2.54 mm Pitch

* The heating module is not included, but can be purchased as an option.

We reserves the right to modify this datasheet and will optimize the product in the future. If you use this product for specific application, please contact us for more technical support.