



Parameters

Principle	NDIR
Range	0 ~ 20%vol CH ₄
Sampling Mode	Pumping
Response Time	≤ 5 s (@500 ml/min)
Recovery Time	≤ 5 s (@500 ml/min)
Long-term Stability*	≤ ±500 ppm/month
Temperature	0 °C ~ 60 °C
Tolerance	± 1% FS (after calibration)
Zero Temp. Drift	± 1% FS (Online Zero Calibration Available)
Resolution	0.005%vol/sec
Reading Unit	ppm (0.0001%vol)
Detection Limit	0.01% FS

*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

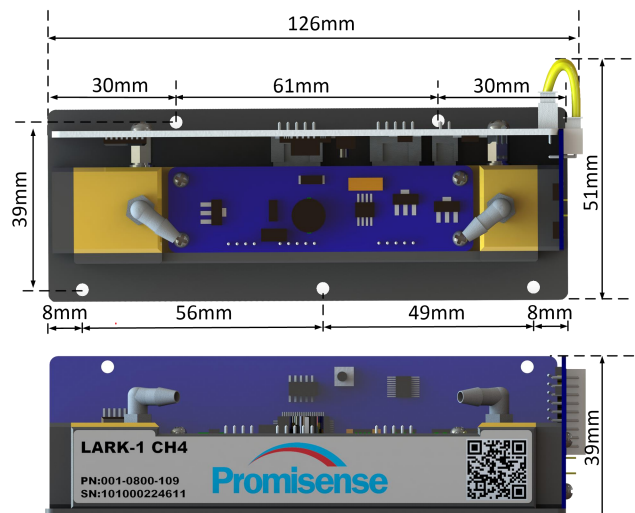
- CH₄ monitoring where high concentration HC existing

Merits

- Low cross sensitivity to HC
- Wide Temperature Range
- Small Size
- Long Life
- Fast Response

Dimensions

- Length: 126 mm ± 1 mm
- Width: 51 mm ± 1 mm
- Height: 39 mm ± 1 mm
- Weight: 208 g ± 5 g
- Screw Hole Diameter: 3 mm

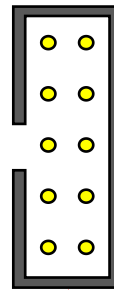


DATASHEET

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 (Tolerance $\pm 3\%$ FS) 60 minutes (Tolerance $\pm 1\%$ FS)
Output Voltage	0.4 ~ 2.0 VDC (#2 pin) (0.3 ~ 0.4 V for Negative Reading)
Warranty	18 months*

Connector Definition



1.ALM	2.V _{out} (DAC)
3.RXD(TTL)	4.TXD(TTL)
5.RXD(RS232)	6.TXD(RS232)
7.CS1*	8.GND
9.PWR DC	10.GND



*CS1: 0-3.3 VDC Output, for RS485

Application Condition

Prefer Condition	Room Temperature, Dry, Clean
Safety	None Explosion-proof Design
Temperature	0 °C ~ 60 °C
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)

Accessory

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

*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.

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.