



Parameters

| | |
|----------------------|---|
| Principle | NDIR |
| Range | 0 ~ 100ppm CH ₂ F ₂ |
| Sampling Mode | Pumping |
| Response Time | ≤ 10 s (@500 ml/min) |
| Recovery Time | ≤ 10 s (@500 ml/min) |
| Long-term Stability* | TBD |
| Temperature | 0 °C ~ 40 °C |
| Tolerance | ± 2ppm @ 20°C |
| Temp. Drift | ± 5ppm |
| Resolution | 1 ppm/sec |
| Reading Unit | ppm |
| Detection Limit | 2 ppm |

*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

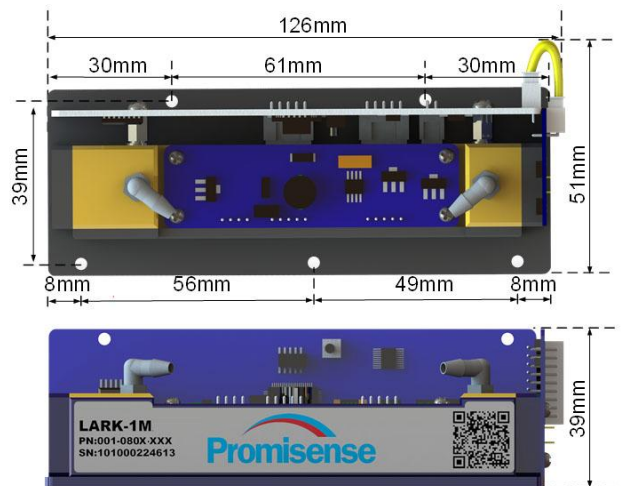
- CH₂F₂ leakage detection

Merits

- Low Detection Limit
- 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

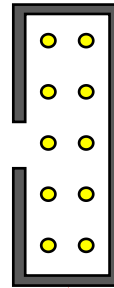


DATASHEET

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 ± 5 ppm) 60 minutes (Tolerance ± 2 ppm) |
| 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 ~ 40 °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.