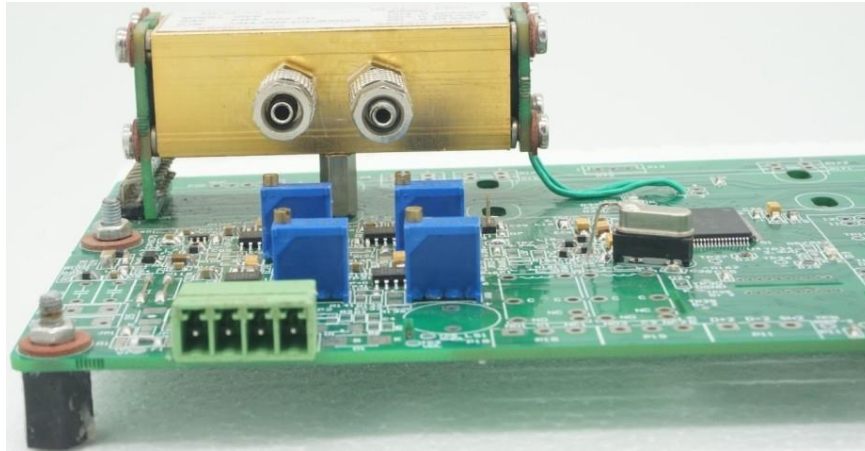


NDIR GAS FLOW SENSORS

IR SENS^{PRO} SERIES



GAS Analysis the Smarter way... High Precision & Durable Sensors.....

We are highly Focused on Customized Solution & Maintaining the highest quality standards with exceptional customer service.

IR SENSE^{PRO}

CH₄ & CO₂ Gas Sensor

- Pre Calibrated
- Compact Design
- 3/5 mm gas line connector
- 9 VDC to 12 VDC Supply Voltage
- Status indicated by LED
- Low drift

Features	CH ₄	CO ₂
Measuring Principle: Non- Dispersive Infra-Red		
Measurement Rang 0- Full Scale (FS)	(FS)=100% V/V	(FS)=100% V/V
Flow Rate : 0.5 - 0.8 LPM		
Warm-up time : 180 sec.		
Accuracy : < 5% of Reading or +/- 0.5 % V/V Whichever is More		

Specification:	CH ₄	CO ₂
• Range :	100 % V/V.	100% V/V
• Digital Resolution :	0.1% V/V	0.1% V/V
• Response Time : <5 Sec. @ 0.5 LPM		
• T90 (10 to 90 % FS) : @ 0.5 LPM <45	<30 Sec.	<45 Sec.
• Repeatability :	≤±2% V/V	≤±2% V/V
• Linearity Error :	≤±2% V/V	≤±2% V/V
• Long term stability (Zero) : over 1000 h period	≤±2% V/V	≤±2% V/V
• Long term stability (Span): over 1000 h period	≤±2% V/V	≤±2% V/V

Electrical Specification:

- **Supply Voltage** : 9 VDC to 12 VDC
- **Supply Current (peak)** : < 200 mA @ 9 V
- **Digital Output Signal** : MODBus Protocol RS485 / UART
- **Calibration** : Zero and span

Environmental Conditions:

- **Operating Temperature** : 0 to + 50°C
- **Storage Temperature** : -20 to +60°C
- **Air Pressure** : 800 to 1100 hPa
- **Ambient Humidity** : 0-95 % Relative Humidity (Not Condensing)

Temp, Pressure Effects:

- **Temp. Dependence (Zero)** : $\leq \pm 0.1\%V/V$ per °C
- **Temp. Dependence (Span)**: $\leq \pm 0.2\%V/V$ per °C
- **Pressure Dependence**: Pressure Compensated, Residual error
In % of actual reading /hPa for CH₄ = 0.5% V/V. & CO₂= 1%V/V

Some Typical Applications:

- Process Measurement Technology
- Emission Measurement
- Biogas Analyzer

For other gases, please contact our sales team

