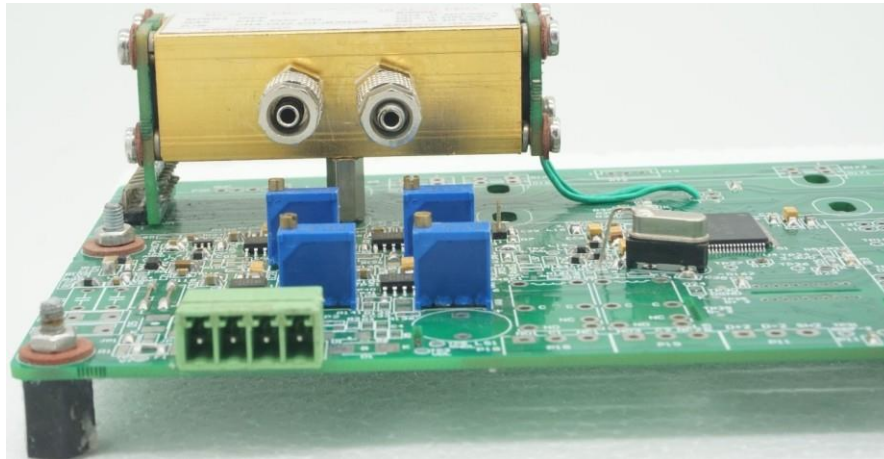


## IR SENS<sup>PRO</sup> SERIES



### 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<sup>PRO</sup>

Infrared Gas Sensor Methane CH<sub>4</sub>: 2000 PPM

- Pre Calibrated
- Compact Design
- 3/5 mm gas line connector
- 9 VDC to 12 VDC, 24VDC Supply Voltage
- Status indicated by LED
- Low drift

### Features:

**Measuring Principle:** Non- Dispersive Infra-Red

**Measurement Range:** 0 -2000 PPM Full Scale

**Flow Rate** : 0.5 - 0.8 LPM

**Warm-up time** : 180 sec.

**Accuracy** : < 10% of Reading or +/- 50 PPM Whichever is More

### Specification:

- **Digital Resolution** : 1 PPM
- **Response Time** : 10 Sec. @ 0.5 LPM
- **T90 (10 to 90 % FS)** : 45 Sec. @ 0.5 LPM
- **Repeatability** : ± 30 PPM
- **Linearity Error** : ± 30 PPM
- **Long term stability (Zero)** : ≤ ± 300 PPM over 1000 h period
- **Long term stability (Span)** : ≤ ± 600 PPM over 1000 h period



## Electrical Specification:

- **Supply Voltage** : 9 VDC to 12 VDC, 24VDC
- **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)** :  $\leq \pm 10$  PPM per °C
- **Temp. Dependence (Span)** :  $\leq \pm 20$  PPM per °C
- **Pressure Dependence** : 20 PPM per 10 hPa
- **Sampling** : Particle free and clean sample gas

## Some Typical Applications:

- Process Measurement Technology
- High Voltage Technology
- CH4 Analysers
- Fruit Storage & Ripening Gas Control
- Emission Measurement

**For other gases, please contact our sales team**

