

# CO<sub>2</sub> Tracer

## Carbon Dioxide Transmitter



Figure 1: CO<sub>2</sub> Tracer

### FEATURES

- Compact
- Inexpensive
- User selectable ranges
- IP65 enclosure
- Reverse voltage protection and temperature compensation

### APPLICATIONS

- OXYGEN AND NITROGEN GENERATORS
- GAS MANUFACTURERS
- HEAT TREATING AND BRIGHT ANNEALING

## The CO<sub>2</sub> Tracer Carbon Dioxide Transmitter

### 4 – 20 mA Loop Powered two wire CO<sub>2</sub> Transmitter

The Model CO<sub>2</sub> Tracer is simple, accurate and very economic measurement of CO<sub>2</sub> levels.

The unit is offered in three different ranges: 0 -500ppm, 0-5%, 0-25%

The CO<sub>2</sub> Tracer uses a special infrared cell to measure the CO<sub>2</sub> concentration. The sensor meets the industrial requirements for accuracy, sensitivity, easy to use and has a long operating life.

The sensor comes fully calibrated and requires no calibration for two years. After that period, it can be calibrated on a calibration gas. The sensor will typically last over 5 years.

The flow will be done through the enclosure. Corrosive gases are not recommend with this measurement.

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### Technical Information

Measurement Ranges	0 - 500 ppm CO <sub>2</sub> Ranges: 0-5%, 0-25%
Calibration	Use a known CO <sub>2</sub> calibration gas that is NIST traceable
Response Time	90 % FSD at 20°C < 30 sec 90%
Load	typ. 470 Ohm at 18Vdc max. 700 Ohm
Pressure	0.1-1 bar
Supply Voltage	10 – 35 VDC reverse voltage protection up to 40VDC
Sensor	Micro-Fuel Cell
Dimensions	80 x 75 x 55 (B x H x T (mm))
Weight	0.6 lb.
Signal Output	4-20mA/DC
Operating Temperature	0°C to +50 °C
Warmup Time	2 minutes
Sample Flow Rate	1-3 scfh
Enclosure Rating	IP65 , Aluminum
Process Connection	¼" tube
Accuracy	+/- 2% FSD T= const. +/- 5% FSD 0>T>50°C