

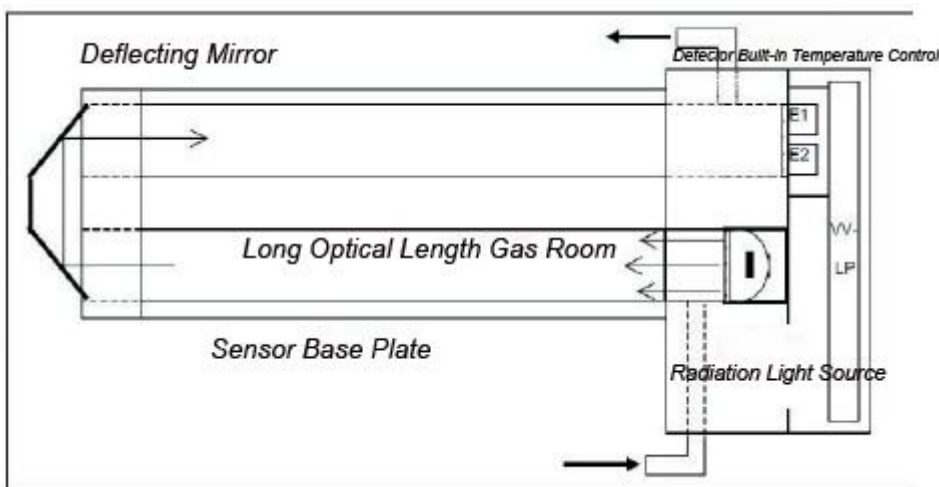
IR40 Process CO2 Analyzer

Technical Specifications

Accuracy:	< ± 1% of FS range under constant conditions;
Measure Range:	0-30%/50%/100.00%, 90.00%~100.00% CO2 FS ranges;
Application:	CO ₂ analysis from 0.1% to 100% in inert gases, mixed gases, gas streams, etc.;
Approvals:	ISO9001:2008;
Area Classification:	General purpose;
Alarms:	2 adjustable form C relay contacts non-latching;
Compensation:	Barometric pressure and temperature; optional heated sample system and sensor housing;
Connections:	1/4" or 1/8" compression tube fittings;
Controls:	Menu driven calibration, alarm and system functions;
Data Acquisition:	Selectable data point intervals;
Display:	Graphical LCD 240 × 128MM;
Enclosure:	Painted aluminum 144(H) × 144(W) × 295MM(D);
Flow Sensitivity:	0.5~1.5l/min recommended;
Pressure:	Inlet - regulate to 0.9 bar~2 bar, Vent – atmospheric;
Power:	Universal; 85~264 VAC, 50/60Hz;
Response Time:	90% of final FS reading < 20 seconds;
Sample System:	Flow control; flow indicator;
Sensor Life:	36 months at 25°C and 1 atm;
Signal Output:	4-20mA isolated;
Temp. Range:	0~45 °C ;
Warranty:	12 months analyzer; 12 months sensor;



Advanced Sensor Technology



Principle: Using non-dispersive infrared radiation (NDIR) technology and combining a robust IR source with a highly reliable pyroelectric detector, the non-dispersive Infrared (NDIR) sensor is simple spectroscopic devices often used for gas analysis. The key components are an infrared source (lamp), a sample chamber or light tube, a wavelength filter, and an infrared detector. The gas is pumped or diffuses into the sample chamber, and gas concentration is measured electro-optically by its adsorption of a specific wavelength in the infrared (IR).

Standard Features

- NDIR principle, dual beam measurement with sample gas and measurement gas, insure high accuracy result;
- Screen touch-sensing technology, better operation experience;
- Detector with temperature control sensor, decrease temperature interference;
- Integrated pressure sensor, decrease unstable flow caused interference;
- Online gas measurement, stable and with long life, no maintenance;
- Output 4-20mA, ideal for system integration;
- Short self-heating time;
- Wide dynamic range.

Applications

CO₂ measurement in:

- CEMS emission control;
- Annealing furnaces for hot galvanizing;
- Fumigation gas detection;
- Blast furnace gas measurement;
- Other applications suitable for NDIR principle.

Install

