



Model 1000-CO2

Carbon Dioxide
Process Analyzer

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APPLICATIONS

- 👉 Natural Gas Pipelines
- 👉 Gas Treating Plants
- 👉 Any On-line, Continuous CO2 Measurement

SPECIFICATIONS

Sensor Type

Non-dispersive Infrared

Measurement Range

0-0.3/1.0/3.0/5.0%
10%/25%/50%/100%

Accuracy/Repeatability

The greater of: $\pm 10\%$ of reading or
 $\pm 2.5\%$ of range

Response/Clearing Time

T50 <30 seconds
T80 <60 seconds

Operating Temperature Range

-40°F to $+167^{\circ}\text{F}$; -40°C to $+75^{\circ}\text{C}$

Operating Pressure Requirements

Inlet: 10 ± 2 psig
Vent: Atmospheric ± 1 psig

Outputs

Linear 4-20 mA DC
RS-485 Modbus™
3 Relays (alarm 1, alarm 2, & fault)
Contacts rated 5 amps

Power Input

117/220 VAC, 22-24 VDC

Electrical Classification

Explosion proof
Class I, Division 1, Groups B, C, D

Sensor Life/Warranty

Sensor: 5 year conditional warranty
Transmitter: 2 year warranty

Analyzer Weight

80 lbs.

Shipping Weight

140 lbs.

Dimensions

29" x 29" x 8"

NOTE: Sample conditioning requirements are handled separately.



0-15% CO2 Range Analyzer Pictured Above

DESCRIPTION

Detcon Model series 1000-CO2 process analyzers provide continuous, real-time measurement of CO2 concentrations in natural gas pipelines, gas treating plants, SRU overhead gas lines, as well as other applications. Available ranges are from 0-0.3% up to 0-100%. The system can be provided with manual calibration or with microprocessor-controlled automatic calibration. Both designs employ Detcon's sub-miniature NDIR optical sensor element with a five-year conditional warranty. The analyzer features a microprocessor-based signal-conditioning transmitter with local digital display, fault supervision, calibration mode indicator, alarm relays and an RS-485 serial port. The instrument package is rated for use in electrically classified areas: Class I; Division 1; Groups B, C, and D. Line power, battery and solar powered models are available.