



3M™ Detcon™ Model 1000 CO₂

Carbon Dioxide Analyzer

Description

Detcon Model 1000-CO₂ Analyzer is designed to provide continuous, accurate, real-time measurement of carbon dioxide gas concentrations in a wide variety of process gas streams. Available ranges are from 0-0.3% up to 25%. All CO₂ analyzers in the Model 1000 Series employ Detcon's sub-miniature NDIR optical sensor element and feature a microprocessor-based signal-conditioning transmitter with local digital display, fault supervision, calibration mode indicator, 4-20mA, alarm relays and an RS-485 serial port. The instrument package is rated for Non-Hazardous areas.

Features

- Ranges from 0-0.3% up to 25%
- Readily Field Replaceable Sensors
- Simple Operation and Field Calibration
- Standard Outputs: 4-20 mA, RS-485, 3 Relays
- Non-Hazardous area rated

Applications

- Continuous Measurement with Superior Uptime
- Ranges from 0-0.3% up to 25%
- Readily Field Replaceable Sensors
- Simple Operation and Field Calibration
- Standard Outputs: 4-20 mA, RS-485, 3 Relays

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Description

Sensor Type

Non-dispersive Infrared

Measurement Range - High Range

0-0.3/1.0/3.0/5.0%
10%/15%/25%

Accuracy/Repeatability

The greater of: ±10% of reading or
±2.5% of range

Response/Clearing Time

T50 <30 seconds
T80 <60 seconds

Operating Temperature Range

-40°F to +167°F; -40°C to +75°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
18-36 VDC

Electrical Classification

Non-Hazardous areas

Warranty

Sensor: 5 years prorated*
Transmitter: 2 year

Analyzer Weight

80 lbs.

Shipping Weight

140 lbs

Dimensions

29" x 29" x 8"

**2 years = free of charge, 3rd year = 25% of replacement cost, 4th year = 50% of replacement cost, 5th year = 75% of replacement cost*

Ordering Information

 Gas cylinder and gas cylinder regulator sold separately

Detcon requires that an application data sheet be completed and submitted to the engineering department prior to quotation and or order confirmation. This process assures that each customer's use of Detcon Model Series 1000 analyzers is reviewed and approached with confidence that the product will perform as specified.

The analyzer application data sheet can be accessed by contacting sales@detcon.com via email.



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