



Model 1000 CO₂

Carbon Dioxide Analyzer



Description

Detcon Model 1000-CO₂ Analyzer provides continuous, accurate, real-time measurement of carbon dioxide gas concentrations in various process gas streams. Available in ranges from 0-1.0% to 0-100.0%, it features Detcon's sub-miniature NDIR optical sensor element and a microprocessor-based signal-conditioning transmitter with a local digital display. It includes fault supervision, calibration mode indicator, 4-20mA outputs, and an RS-485 serial port, all housed in a robust package suitable for hazardous areas.

Features

- Measurement Ranges: 1%, 3%, 5%, 25% and 100% by Volume
- Field Replaceable Sensors: Easy and quick sensor replacement
- Simple Operation and Calibration: User-friendly interface for straightforward operation
- Standard Outputs: Includes 4-20 mA and RS-485

Applications

- Continuous Measurement: Ensures superior uptime and reliability
- User-Friendly Operation: Simplified field calibration and operation
- Versatile Outputs: Supports 4-20 mA and RS-485



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Specifications

Sensor Type

Non-dispersive Infrared (NDIR)

Measurement Range

0-1.0%, 0-3.0%, 0-5.0%, 0-10%, 0-25.0%, 0-100%

Accuracy/Repeatability

Greater of $\pm 10\%$ of reading or $\pm 2.5\%$ of range

Response/Clearing Time

T50 <30 seconds, T90 <1 minute

Operating Temperature Range

-4°F to +131°F; -20°C to +55°C

Operating Pressure Requirements

Inlet: 10 \pm 2 psig, Vent: Atmospheric \pm 1 psig

Outputs

4-20 mA DC, RS-485 Modbus™

Power Input

100-240VAC, 50-60hz, 0.5-1A max or 18-36VDC

Electrical Classification

Certified by Intertek for Class I Division 1 Groups BCD & Class I Zone 1 Group IIB+H2

Warranty

2 years for sensor and transmitter

Weight

65 lbs (Analyzer), 125 lbs (Shipping)

Dimensions

21" x 21" x 8"

Ordering Information

To ensure the Teledyne Detcon Model 1000 CO₂ Analyzer meets your specific needs, please complete an application data sheet prior to quotation or order confirmation. This process helps guarantee optimal performance in your application. For more information, contact: Email: Detcon-Sales@Teledyne.com

Teledyne Gas & Flame Detection quality assurance programmes demand the continuous assessment and improvement of all our products. Information in this leaflet could thus change without notification and does not constitute a product specification. For more information, please contact us or your company representative



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