

# Model 1000 CO<sub>2</sub>

Carbon Dioxide Analyzer



## **Description**

Detcon Model  $1000\text{-}\mathrm{CO}_2$  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 0-1.0% up to 0-15.0%. All  $\mathrm{CO}_2$  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**

- $\bullet$  Ranges from 1%, 3%, 5% and 15% by Volume
- Readily Field Replaceable Sensors
- Simple Operation and Field Calibraton
- Standard Outputs: 4-20 mA, RS-485, 3 Relays
- Non-Hazardous area rated

# **Applications**

- Continuous Measurement with Superior Uptime
- Readily Field Replaceable Sensors
- Simple Operation and Field Calibraton
- Standard Outputs: 4-20 mA, RS-485, 3 Relays



## Model 1000 CO, Carbon Dioxide Analyzer

#### **Description**

#### **Sensor Type**

Non-dispersive Infrared

Measurement Range - High Range

0-1.0/3.0/5.0/15.0%

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: 2 years Transmitter: 2 years

**Analyzer Weight** 

80 lbs.

**Shipping Weight** 

140 lbs

**Dimensions** 

29" x 29" x 8"

#### **Ordering Information**

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.

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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