



FEATURES	BENEFITS
State-of-the-Art IR Sensor Technology	High Precision Measurement
Wide Range	Provides Greater Instrument Versatility
User Scalable Analog Outputs	Better Defines the Concentrations of Interest
Rapid Speed of Response	Quickly Senses Changes in Gas Composition
Dual Adjustable Alarm Set points	Set Critical Process Limits
Advanced Digital Electronics	Helps to Ensure Accurate Measuring Values
Minimum Maintenance	Low Cost of Ownership
4 Line Back-lit LCD	Easy to Read in a Variety of Ambient Conditions

System Description

The Series 9610 Carbon Dioxide Analyzer provides continuous, unattended measurement of either percent or trace levels of carbon dioxide in other gases. The product is ideally suited for both continuous or spot monitoring requirements.

The focal point of the Series 9610 is its state-of-the-art sensor technology that features a next generation NDIR (non-dispersive infrared) measuring system. This carbon dioxide sensor incorporates closed-loop control for enhanced long-term calibration stability. The control signal is generated by means of an optical referencing element that monitors source intensity.

This methodology, coupled with a novel source homogenizing gas sampling chamber, yields a system with greatly improved tolerance to changes in the infrared source outputs.

Options/Accessories

RS-232 or RS485 Serial Communications
Sample Pumps
Sample Filters
Pressure Regulators
Flow Meters
Built-in Data Logger
Remote Sensor

Applications

Food Processing
Pharmaceutical Manufacturing
Environmental Monitoring
R&D
Laboratory Growth Chambers
Fermentors
Glove Boxes and Isolators
Incubators

Specifications PERFORMANCE

Ranges:	Percent: 0-20% / 0-100% (optional) Trace: 0-5,000 Parts Per Million (PPM)
Error Band:	Percent Range: 0.1% or $\pm 5.0\%$ of reading, whichever is greater Trace Range: ± 30 ppm or $\pm 2\%$ of reading, whichever is greater (error stated at 77°F(25°C) and 14.7 psig (1.03 kg/cm ²))
Response Time:	<35 seconds to 63% of step change @ a sample flow rate of 200ml/minute (recommended sample flow rate)
Sensor Type: Operating Humidity Range:	Non-dispersive infrared (NDIR) 0-99% RH non-condensing
Ambient Temperature Range:	40 to 100°F (5 to 38°C)
Sample Delivery:	Pressurized sample or optional pump
Warranty:	Two years electronics and sensors

ELECTRICAL

Display:	4 line x 20 character LCD for both O ₂ and CO ₂
Power Requirements:	90-264 VAC, 50-60 Hz
Analog Outputs:	Two 4-20 mADC outputs that are range configurable. Either or both outputs can be set to provide 0-20 mADC
Alarm Relays:	Two (2) SPDT Form C contacts rated 10 A (250 VAC) / 5A (100 VDC) User configurable to alarm on either O ₂ or CO ₂ levels
Audible Alarms:	Internal audible alarm (user configurable per alarm)
Audible Alarm Canceling:	Individual front panel buttons

SAMPLE GAS CHARACTERISTICS

Maximum Sample Flow Rate:	0.1-0.5 liters per minute (SLPM) optimum
Sample Pressure Limits:	1.0 to 2.0 standard cubic feet per hour (SCFH)<2.0 psig.(< 0.1406 kg/cm ²)

CONSTRUCTION

Enclosure:	NEMA 1, Powder coated, painted aluminum enclosure suitable for bench-top use
Enclosure Dimension:	10.76 in. (273.30 mm) Width 6.3 in. (160.02 mm) Height 13.10 in. (332.74 mm) Depth Note: All dimensions are without optional equipment
Gas Sample Connections:	1/4" stainless steel compression fitting
Weight:	<10 pounds (4.536 kg)



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