



Model TA-2100 *smarter* IR Infrared Carbon Dioxide CO₂ Gas Detector

➤ Features

no false alarms infrared (NDIR) sensor technology

Self-Calibration adjusts monthly based on sensor life curve

Auto-Gas Calibration, non-intrusive, hands-free, magnetic switches

Not affected by temperature -20°C to +50°C, stable by design

LCD display - 12 characters x 2 lines - provides user interface with magnetic switches - no dip switches - LED alarm indicators

Offsite sensor calibration with memory chip embedded in sensor

Peak Value, 15-min. TWA, Remaining Sensor Life, Replace Sensor indication and number of days since last gas calibration

Optional Relay Module; low, mid, high and fault conditions

Optional RS-485 Modbus RTU Network interface

Advanced diagnostics - continuous on-board systems monitoring

Part No. 01-26116

Options

- Modbus RTU
- Relay Module
- Sensor Cable
- Sample Pump
- Duct Mount Kit
- Dust Guard
- Splash Guard
- Wireless Module
- 110/220 VAC
- Calibration Kits
- 316 SS Enclosure

➤ Specifications

Detection Principle:	Infrared (NDIR)
Detection Method:	Diffusion or Sample Drawing
Detection Range:	0 - 5% Volume (ranges to 100% CO ₂)
Calibration Method:	Non-intrusive, magnetic tool
Operating Voltage:	12 - 30 VDC, 24 VDC nominal
Power Requirements:	1.82 W @ 24 VDC
Electrical Connections:	Power (24 VDC) and Signal (4-20mA)
Cable Requirements:	3 or 4 wires, shielded
Optional Connections:	RS-485 Half-duplex (Modbus RTU)
Resolution:	0.1% Vol. minimum detection level
Zero Drift:	less than 0.1% volume
Temperature Range:	-20°C to +50°C
Humidity Range:	0 - 99% RH, non-condensing
Response Time:	<30 sec. to 90% of final reading
Recovery Time:	<30 sec. to 90% recovery
Sensor Service Life:	>5 years typical; normal conditions
Electronic Enclosure:	Ex-Proof, alum. or 316 SS, Nema 4x
Certifications:	UL, Class I, Division 1, GR B,C,D

➤ Applications

- Beverage Carbonation
- Chemical Processing
- Lasers
- Oil Well Injection
- Natural Gas Pipelines
- Laboratories
- Metal Production
- More

Specifications subject to change without notice due to continued program of product innovation.

Toxic • LEL Combustible • Oxygen • VOCs • Hydrides • Hydrocarbons
Gas Detection **no false alarms** Fire Detection

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