B-Guard Millenium CO$_2$

Infrared Carbon Dioxide Gas Detector

GTA Millenium infrared carbon dioxide detector is a single source dual wavelength instrument. The sensing and reference elements are self-compensating for optical integrity and other signal inhibitors. The industry standard 4-20 mA analog output provides complete remote alarm, fault and calibration signals.

Features
• Infrared sensing technology
• Virtually maintenance free
• Low cost of ownership, over five years operating life
• Immune to poisoning and etching
• Designed for harsh environments
• Explosion proof
• Compact & lightweight
• Fast response time
• Smart calibration
• Self-compensating optical bench
• No moving parts
• Heated optical chamber
• Low power consumption
• Operates in constant hydrocarbon background
• Operates in anaerobic atmospheres
• Fault indications for all failure states
• Routine calibrations are not required
• 4 to 20 mA output
• Many ranges available
• Can be coupled with a transmitter for network applications
• RS-485 communication link available
• Digital display option available

Applications

The GTA Millenium CO^2 detectors are designed to be used where rugged, explosion proof, ultra reliable device is required.
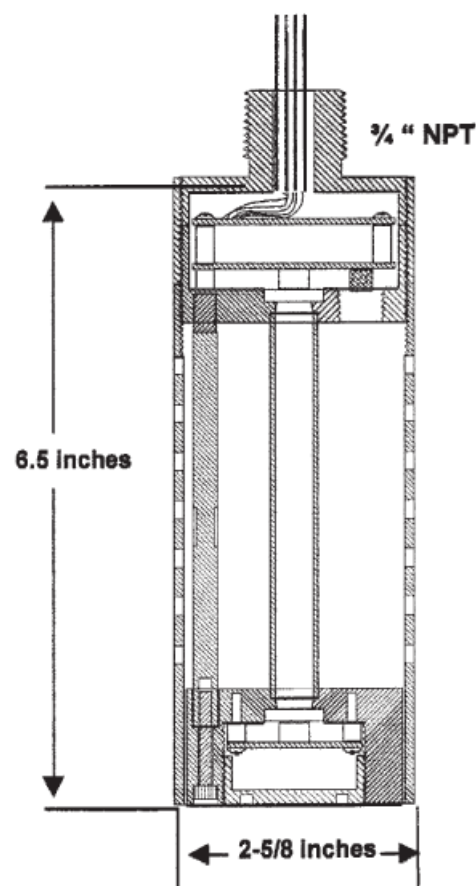
• Gas Storage

• Water Industry

• Injection Oil Recovery

• Enivironmental Chambers

• Industrial Process Control

• Laboratories

• Food Processing/Packaging

• Breweries/Wineries

• Greenhouses

• HVAC (DCV, Energy Management)

• Bottling Plants

• Engine Test Cells

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Specifications

Detectable Gases	Carbon Dioxide
Operating Voltage	18-36 VDC
Power Consumption	4 Watts at 24 VDC
Analog Output	4 - 20 mA (sourced)
Range	0 - 5% Volume Standard Range Alternate ranges are available
Enclosure Construction	Copper Free non-corrosive aluminum, nickel-plated, Stainless Steel
Mounting	3/4" NPT
Ingress Protection	IP66
Accuracy	+/- 3% 0 to 50% full scale
	+/- 5% 51 to 100% full scale
Response Time	(with standard weather protection)
	T50 < 3sec.
	T90 < 5 sec.
Temperature Rating	-40o to +70°C
Humidity	0 - 99% (non-condensing)
Classification	Class 1, Div. 1
	Groups B, C & D
EMI Protection	Operates correctly with 5 Watt walkie talkie keyed at 3 feet
Weight	Approx. 2 lbs. (.9 Kg)

¾ " NPT

6.5 inches

2-5/8 inches

Distributed By

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