GTA 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.
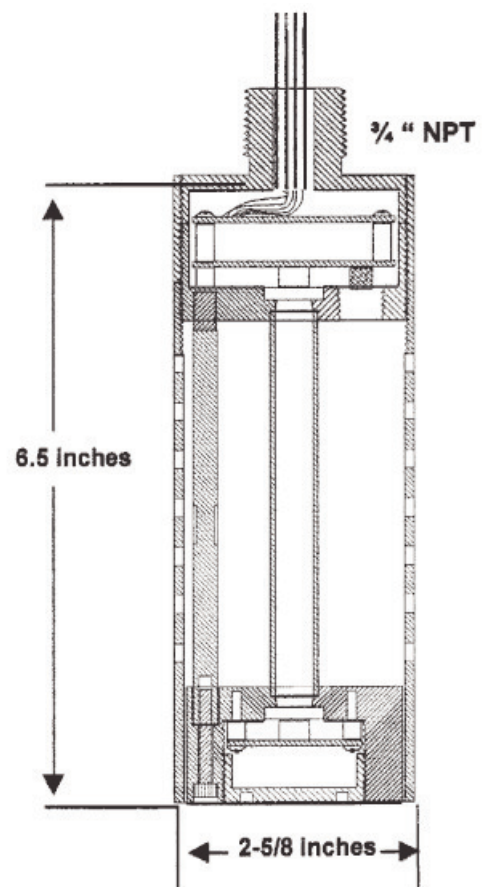
- Gas Storage
- Water Industry
- Injection Oil Recovery
- Enivironmental Chambers
- Industrial Process Control
- Laboratories
- Food Processing/Packaging
- Breweries/Wineries
- Greenhouses
- HVAC (DCV, Energy Management)
- Bottling Plants
- Engine Test Cells

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GTA Millenium CO_2

Infrared Carbon Dioxide Gas Detector

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

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Specifications subject to change without notice (Aug 02)