

# B-Guard Millenium LEL

## Infrared Hydrocarbon Gas Detector



GTA Millenium Series hydrocarbon 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 remote alarm, fault and calibration signals.

### Features

- CSA & FM Performance Approved
- 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
- 0 to 100% LFL detection range
- Can be coupled with SEC 2000 transmitter for network applications.
- RS-485 communication link available
- Digital Display option available

### Applications

**The GTA Millenium Series hydrocarbon detectors are designed to be used in the same applications where catalytic bead sensors have been applied.**

- Refineries
- Gas turbines
- Drilling and production platforms
  - Chemical plants
  - Fuel loading facilities
  - Compressor stations
  - Oil well logging
- Wastewater treatment facilities
  - LNG/LPG processing and storage facilities
  - Transportation facilities

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Unit Status Chart

Current Output	Status
4-20 mA	Normal measuring
0.0 mA	Unit Fault
0.2 mA	Reference channel fault
0.4 mA	Analytical channel fault
0.8 mA	Unit Warm up
1.0 mA	Optics fault
1.2 mA	Zero drift fault
1.6 mA	Calibration fault
2.0 mA	Unit Spanning
2.2 mA	Unit Zeroing
4.0 mA	Zero gas level
5.6 mA	10% LEL
8.0 mA	25% LEL
12 mA	50% LEL
16 mA	75% LEL
20 mA	100% LEL
20.1-23 mA	Over range (> 100 %)

Operating Voltage	24VDC (18 – 32VDC)
Current Draw	210mA avg, 400mA peak
Power Consumption	5 W Max.
Analog Output	4 – 20 mA (sourced)
Range	0 – 100% LEL
Gases	Methane, Propane, and Butane. Other hydrocarbon gases are available
Accuracy	± 3% 0 to 50% LFL ± 5% 51 to 100% LFL
Response Time	T50 < 5 seconds T90 < 10 seconds
Temperature Rating	- 40C° to + 70°C - 40F° to + 158°F
Humidity	0-99% (non-condensing)
Housing Construction	Nickel-plated aluminum and stainless steel. Optional stainless steel model.
Approvals	CSA, FM Performance Approved
Classification	Class 1, Div. 1, Groups B, C & D
Mounting	¾" NPT
Weight	2 lbs. (0.9 kg.)

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