

SPECIFICATIONS

Dimensions: Detector Head 5"L x 2"W
EXMO, SLAM & COMO (each) 6"L x 3.5"W x 2"H

Shipping Weight: Detector Head .875 lbs (.4 kg)
EXMO, SLAM & COMO (each) 1.25 lbs (.6 kg)

Output Signal: Range 4-20mA or 1-5 mA (user selectable, 4 - 20mA is default). Modbus RTU available as an option. Output is linear and proportional to the gas scale. Load (maximum resistance) 300 Ohms

Measurement Ranges: 4% LEL - 112% LEL (Lower Explosive Limit) or 4% to 100% by volume.

Flooding: Not flooded by high concentrations of gas.

Humidity Range: 0-99% RH, non-condensing

Temperature Range: Operating: -40°F (-40°C) to +167°F (+75°C)
Storage: -58°F (-50°C) to +185°F (+85°C)

FM Approvals tested the detector head to -20°C (-4°F) to +70°C (+158°F) and tested the EXMO/SLAM/COMO to -20°C (-4°F) to +60°C (+140°F)

Pressure: The average sea-level pressure is 1013.25 mbar. Normal pressure changes have a small effect on LEL readings.

IR Light Source: Rated 70,000 hours

Calibration Regulator: Flowrate 1 LPM (liter per minute)

Zero Calibration: Required infrequently.

Span Calibration: Check annually.

Mean Time Between Failures (MTBF@70F): 8 years (electronics)

Response Time: t(60) <12s

Recovery Time: t(10) <60s

Accuracy: +/-5% Measuring Range or +/-10% of indication, whichever is greater

Repeatability: +/-3% up to 112% LEL

Input Voltage: Nominally 12 to 42 VDC.

Warm up time: 45 seconds to operational. Up to one hour to specification depending upon ambient temperature.

Zero Drift: Less than 2% per month (estimated).

Span Drift: Less than 2% per month (estimated).

Blocking Gases: Acetylene interferes with methane.

Poisons: None Known

Interfering gases: Sensitive to most CHC Gases but will only be accurate for methane. It will be substantially inaccurate for other CHC gases detected.

Effect of low or high levels of Oxygen: No effect

Detector Head RFI/EMI Immunity: Less than 1% LEL change with 5w transceiver keyed within three feet.

RFI/EMI Protection complies with EN50270, EN61000-6-4

Area Hazard Classification: Class I, Divisions 1 & 2, Groups C, D

Altitude Correction: When span calibrated at point of use.

SLAM Relays: 6 amps@120 volts

SLAM Response Time: Less than a second from the time the detector head sees sufficient gas to trigger an alarm to the relay operating.

EXMO Response Time: Less than a second from the time the detector head sees gas to the EXMO displaying that gas concentration.

Approval: FM Approvals

SIL (Safety Integrity Level): SIL 2

Warranty: 2 years from date of shipment.

Patents: Compensation and operational algorithms protected by Delphian Patents 6,545,278 and 7,996,159

A business exists for one primary reason: to create and maintain customers.

In order to create and maintain customers a business must meet customer expectations concerning product, price, delivery and service. Our goal is to exceed our customers' expectations and to provide superior value in all these areas.

We are committed to producing safe, effective and reliable products that perform as advertised. These products are subject to continuous review, inspection and improvement and satisfy the health, safety and environmental needs of our customers and their employees.

Delphian views every sale as a partnership. We consider the purchase of our products to be a matter of trust and commitment between us and our customers.



DELPHIAN CORP

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GazTell

Fixed Point Long-Life
Infrared
METHANE
GAS MONITOR

Hassle free safety:

- Simple to use and install
- Shock & vibration resistant
- No sensor replacement
- Low power consumption
- Immune to poisoning
- Checks itself every second
- Plain English displays
- Tough
- Reliable
- Affordable
- Accurate



GazTell Methane

OPTIONAL SLAM External Relay Module

- Set alarm levels without software, using simple jumper selection.
- The module can be placed anywhere relays are needed.
- Flexible design allows the relays to be placed next to the functions they operate.
- The relay module uses hefty 6 amp @ 120 volt relays for Fail, High and Low Alarm, so auxiliary relays are often not needed. Alarm relays can be set to be latching or non-latching, energized or de-energized, normally open or closed. Even a 5 second alarm delay can be turned on to avoid false alarms.
- Relays operate from -40°F to 167°F (-40°C to +75°C).



ACCESSORIES:

Optional:

- COMO Modbus Communications Module
- Splash/Wind Guard
- Ported Adaptor
- Reclamation Adaptor
- Lightning Arrestor
- Collection Cone
- Wye Pipe Adaptor
- Heat Shield
- Calibration Cup

THE DETECTOR HEAD

The GazTell IR detector head can be used alone or with the optional modules.

- The small size (5"L x 2"W) makes it easy to place in inconspicuous or difficult to reach locations.
- User-friendly, alpha-numeric LED display with plain English, understandable instructions and prompts.
- Low maintenance and low cost of ownership. Zero calibration required infrequently. Span calibration may never be required after start-up. The detector head monitors drift and will display CALIBRATION NEEDED if the drift is over 5% LEL. The detector head records and will display the last time it was calibrated.
- Connects directly to conduit eliminating the need for expensive and bulky junction boxes.
- Smart Sensor saves operator time and money. The sensor knows when calibration is required, when it was last calibrated, how long it has been in service, zero drift, high and low temperature, the highest gas reading since the last calibration, when the optics are dirty and many more. It checks itself and its vital functions every second.
- No need to heat optics, even at -40°C, so power consumption is very low. Even at its maximum power consumption (with the display at its brightest), the detector head uses only 65mA @ 24VDC.



OPTIONAL EXMO External Display Module

The EXMO is a problem solver—it communicates directly with the detector head and mimics its display. If the detector head is located remotely high or low, or in a difficult to calibrate place, locating the EXMO in an accessible position gives immediate access to the detector head's sensor. It sees everything the detector head sees. It gives control via bi-directional RS-485.

Remote calibration has never been so easy. The small extension module has the same plain English displays and color coded operation as the remotely placed detector head.

- Check the sensor before entering a dangerous area.
- Take the sensor online or offline
- Calibrate
- Cancel calibration



Receive Del•Seal thread sealant, a magnetic calibrator and a 78-page comprehensive Owners Manual at no extra charge with each shipment that includes a detector head.

GazTell is a modular system: only pay for what you need