Model TA-2100 smarter
Catalytic LEL Combustible Gas Detector

Features

- no false alarms catalytic bead sensor technology
- Self-Calibration adjusts monthly based on sensor life curve
- Auto-Gas Calibration, non-intrusive, hands-free, magnetic switches
- Not affected by temperature -40°C to +75°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
- Available suitable for use in SIL 2 environments / Advanced diagnostics

Specifications

Detection Principle: Catalytic bead LEL combustible
Detection Method: Diffusion or Sample Drawing
Detection Range: 0 - 100% LEL (lower explosive limit)
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: 1% LEL minimum detection level
Zero Drift: less than 1% of full-scale
Temperature Range: -40°C to +75°C
Humidity Range: 0 - 99% RH, non-condensing
Response Time: <10 sec. to 50% of full-scale
Recovery Time: <30 sec. to 90% recovery
Sensor Service Life: >3 years typical; normal conditions
Electronic Enclosure: Ex-Proof, alum. or 316 SS, Nema 4x
Certifications: CSA, Class I, Div. 1, Groups B,C,D

Applications

- Oil & Gas Exploration
- Chemical Processing
- Oil Refining
- Steel Mills
- Mud Logging
- Laboratories
- Natural Gas Distribution
- More

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