

SC1100 Catalytic Bead LEL Gas Detector

Millennium Series

The SC1100 catalytic bead gas detector continuously monitors your site for the presence of combustible gases. The SC1100's proprietary **SensorGuard** feature protects sensors from damage caused by extended exposure to high concentrations of combustible gas.

The SC1100 is an intelligently designed combustible (LEL) gas detector, engineered to the highest standards for performance and quality. Ideally suited to withstand the most extreme, high-risk industrial applications.

- **SensorGuard** sensor management
- 0 to 100 % LEL, full combustible range
- Operating temperature range -40 °C to +85 °C (-40 °F to +185 °F)
- Analog, relay or digital output configurations

Features and Benefits

The Millennium SC1100 Series is a field-proven line of industrial gas detectors specifically engineered to provide fast, accurate and continuous monitoring of flammable gases in extreme environments.

The SC1100 gas detector provides low maintenance with long calibration intervals, field-proven sensor design is backed by one of the longest warranties in the industry, long term reliability, and third-party approvals.

Enclosed in a compact and explosion proof housing, the Millennium transmitter features a power disconnect switch to simplify maintenance, a clearly visible scrolling LED display for calibration and configuration and meter jack for easy current loop monitoring.



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- Intuitive menu system, calibrations 90 seconds from start to finish
- Explosion-proof, Class I, Division/Zone 1 Approved
- 10.5 to 32 V dc operating voltage

The transmitter includes internal push button controls while as well as an external magnetic switch for non-intrusive controls during calibration and configuration.

The Millennium SC1100 was designed for both 12 or 24 Vdc systems and is available with Analog and Relay output configuration as well as a Low Power option that draws as little as 32 mA of power.

Specifications

Table 1 - SC1100 Catalytic Bead LEL Gas Detector

| SC1100 Sensor | |
|--------------------------|---|
| Range of Detection | 0 to 100 % LEL of most hydrocarbons and hydrogen |
| Linearity/ Repeatability | ±3 % LEL/±2 % LEL |
| Response Time | <10 seconds to T50 <30 seconds to T90 |
| Accuracy | ±3 % LEL up to 50 % LEL ±5 % LEL above 50 % LEL |
| Temperature Range | -40 °C to +85 °C (-40 °F to 185 °F) |
| Enclosure Material | Anodized/Powder Coated Aluminium (Optional Stainless Steel) |
| Certifications | Class I, Division 1, Groups B, C and D - T5 |
| Sensor Warranty | 5 Years |

**NOTE: For other gases please consult factory.*

| ORDERING INFORMATION | | |
|---|---|--|
| Transmitter | Combustibles Sensor Element | Enclosure / Separation |
| MLP-A- Analog Output only | SC1100 Catalytic Bead Sensor 0-100 % LEL | -SEP Separation Kit Included |
| MLP-AR- Analog and Relay Output | | -SS Stainless Steel Housing -SEP-SS Stainless Steel Housing and Separation Kit Included |
| Order Example: MLP-A-SC1100-SEP-SS MLP Transmitter with SC1100 Catalytic Bead Sensor, 4-20 mA output only, Stainless Steel Housing and optional Sensor Separation Kit included. | | |

| Transmitter/Controller | | |
|--|--|--|
| Specification | MLP "A" Version | MLP "AR" Version |
| Operating Voltage Range | 10.5 to 32.0 Vdc | |
| Power Consumption (at 24 V dc) | Nominal 62 mA, 1.49 W Maximum 90 mA, 2.16 W | Nominal 74 mA, 2.0 W Maximum 132 mA, 3.17 W |
| Enclosure Material | Powder Coated Copper Free Cast Aluminium (316 Stainless Steel Optional) | |
| Operating Temperature and Humidity Range | -40 °C to +85 °C (-40 °F to 185 °F) 0 to 95 % Relative humidity, non-condensing | |
| Output(s) | Analog 4-20 mA: Max. loop impedance of 800 Ohms at 32 V dc or 150 Ohms at 10.5 V dc. Isolated or non-isolated loop supply | Relays: 3 Form C contacts rated 5 Amp at 30 V dc/250 V ac |
| Weight | 3.2 Kg (7.0 lbs) | |
| Electronics Warranty | 3 Years | |
| Alpha-numeric Display | Bright 8-digit LED scrolling type display - English, French, and Spanish languages available | |
| Unique Features | Local Power Switch and Meter Test Jacks on faceplate for easy maintenance. Easy to read instructions for one person Non-Intrusive calibration | |
| Certifications | <ul style="list-style-type: none"> CSA certified for hazardous locations, Class I, Division 1, Groups B, C and D, Temperature code T5 Ex IIB + H2 T5 (Class I, Zone 1 Group IIB + H2 T5). Maximum Operating Ambient of 85 °C. Enclosure Type 4X. IIG EEx d IIB + H2 T5 (-40 °C ≤ Tamb ≤ 85 °C). | |

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