

SC1100 Catalytic Bead LEL Gas Detector

Poison Resistant, Long-life Guarantee

The SC1100 Catalytic Bead gas detector continuously monitors your site for the presence of combustible gases. Net Safety'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 - 50 °C to +85 °C (-58 °F to +185 °F)**
- **Analog, Relay or Digital Output Configurations**

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 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**
- **CSA, NRTL/C and IEC Certifications**
- **10.5 to 32 V dc Operating Voltage**

The transmitter includes internal push button controls while maintaining a Class I Division 2 rating 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 V dc systems and is available with Analog, Relay and RS 485 Digital Modbus® RTU output configuration as well as a Low Power option that draws as little as 32 mA of power.

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Specifications

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	Operational: 50 °C to +85 °C (-58 °F to +185 °F) Certified: -40 °C to +85 °C (-40 °F to 185 °F)
Enclosure Material	-Anodized / Powder Coated Aluminium (Optional Stainless Steel)
Certifications	CSA and NRTL/C certified for hazardous locations. Class I, Division 1, Groups B, C and D - T5 IEC Rating Ex d IIB+H2 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
MLP-AD- Digital RS485 Output		-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	MLP "AD" 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	Nominal 67 mA, 1.64 W Maximum 94 mA, 2.33 W
Enclosure Material	Powder Coated Copper Free Cast Aluminium (316 Stainless Steel Optional)		
Operating Temperature and Humidity Range	Operational -50 °C to +85 °C (-58 °F to +85 °F) / Certified -40 °C to +85 °C (-40 °F to 185 °F) 0 to 100 % 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 Vdc / 250 V ac	Digital RS485: Modbus RTU protocol
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 and NRTL/C certified for hazardous locations, Class I, Division 1, Groups B, C and D, Temperature code T5 IEC Rating 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). 		
<i>*NOTE: Electronics only - CSA and NRTL/C certified for hazardous locations Class I, Division 2 Groups A, B, C and D.</i>			

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