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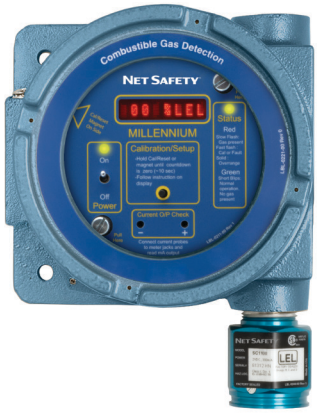
SC1100 Catalytic Bead LEL Gas Detector

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 gases.

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.



SC1100 Catalytic Bead LEL Gas Detector

- *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
- Intuitive menu system; calibrated in 90 seconds from start to finish
- Explosion-proof, Class I, Division/Zone 1 Approved
- 10.5 to 32 VDC operating voltage

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, 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 test jacks for easy current loop monitoring.

The transmitter includes internal push button controls plus 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 configurations 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 BCD - T5
Sensor Warranty	2 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 **-SS** Stainless Steel Housing **-SEP-SS** Stainless Steel Housing and Separation Kit Included
MLP-AR- | Analog and Relay Output		
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 VDC)	Nominal 87 mA, 2.09 W Maximum 94 mA, 2.26 W	Nominal 106 mA, 2.54 W Maximum 115 mA, 2.76 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 VDC or 150 Ohms at10.5 VDC. Isolated or non-isolated loop supply	**Relays:** 3 Form C contacts rated 5 Amps at 30 VDC/250 VAC
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	▪ Class I, Division 1, Groups BCD Temperature code T5 ▪ Ex IIB + H2 T5 (Class I, Zone 1 Group IIB + H2 T5) ▪ Maximum Operating Ambient of 85 °C. Enclosure Type 4X ▪ II2G EEx d IIB + H2 T5 (-40 °C ≤ Tamb ≤ 85 °C)	

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