SENSAIR® CMB

Heavy Duty Combustible Point Gas Monitor

- **FM Certified for Hazardous Classified Area Installation in Division 1 & Division 2 and ATEX Zone 1 & Zone 2**

- **Explosion Proof 316 Stainless Steel Sensor Housing**

- **High Powered, Poison Resistant Catalytic Bead Sensor with Rapid Response**

- **Bright LED Display or Blind Models**

- **Non-Intrusive Zero & Span Adjustments**

- **Easy Installation and Maintenance Ideal for Retrofit or New Applications**

- **3-wire Design with 4-20mA Output**

- **Horizontal or Vertical Installation**

Poison Resistant Sensor in SensAir CMB

SensAir CMB is a heavy duty combustible point gas detector employing a sensor designed with enhanced poison resistance to Sulfides and Silicone. This advanced sensor technology in SensAir CMB significantly reduces the effects of poisoning, thereby minimizing the replacement of sensors and costs of ownership, making this product a cost effective, robust gas detector for chemical and hydrocarbon processing and manufacturing facilities.

Effective and Efficient Monitoring

SensAir provides options for users to select the instrument enclosure, display, and installation orientation. These options combined with premium grade gas sensors create a reliable solution to meet a wide range of target installation and application requirements and for OEM and high-volume gas detection applications.

Reduced Cost of Ownership

SensAir is housed in a rugged explosion-proof cast aluminum enclosure with horizontal or vertical conduit orientation. or a polycarbonate NEMA rated enclosure. Display models feature bright LED display and non-intrusive user interface means fast set-up and maintenance. Both the HD plastic and 316 stainless steel sensor housing provide excellent corrosion resistance.
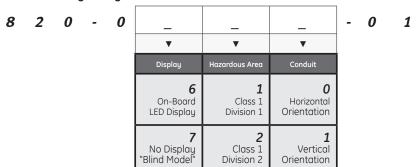

Left to Right: Flow Block (821-0605-01), Sensor Shield (821-0603-01), and Calibration Adaptor (821-0604-01) .

See reverse for product specifications.

SensAir CMB
Heavy Duty Combustible Point Gas Monitor

SENSIDYNE
Industrial Health & Safety Instrumentation

Product Ordering Configurator:

8 2 0 - 0 ▢ ▢ ▢ - 0 1

Display	Hazardous Area	Conduit
▼	▼	▼
6 On-Board LED Display	**1** Class 1 Division 1	**0** Horizontal Orientation
7 No Display "Blind Model"	**2** Class 1 Division 2	**1** Vertical Orientation

Example Configuration:

820-0610-01 is a standard orientation (horizontal) SensAir^{CMB} with 4-20mA output with on-board LED display, approved for Class 1 Division 1 hazardous classified areas.

"Blind" version omits local display for cost and security purposes.

Hand-held Controller (821-0602-01) provides local interface for blind (non-display) models.

Specifications

Sensor
Poison resistant catalytic bead. SensAir CMB can be used for detection of Methane, Propane, Pentane, Butane and most other common combustible gas detection needs. *See manual for calibration instructions when targeting gases other than Methane.*

Power Requirement
24 VDC, nominal, up to 6 Watts

Voltage Range
12-30 VDC

Current Consumption (Max)
300mA, typical 125mA

Termination Resistance
Less than 500Ω
250Ω recommended

Transmission Link
4–20 mA current source, non-isolated with respect to Common (3 wires)

Operating Temperature
-4˚ to 167˚F (-20˚ to 75˚C)

Storage Temperature
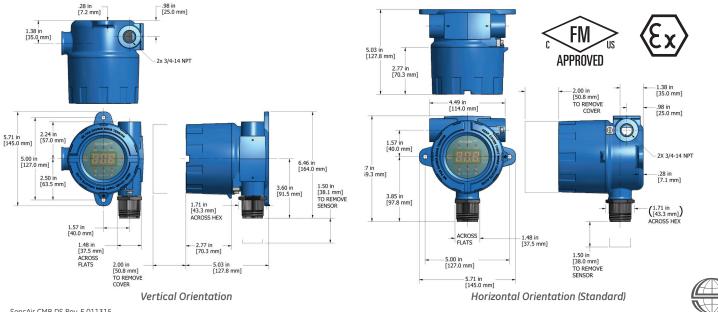-40˚ to 122˚F (-40˚ to 50˚C)

Operating Humidity
0-95% RH, non-condensing

Oxygen Requirement
10% by volume, minimum

Approvals
FM US and Canadian | NEC/CEC
Class I, Div 1, Groups A, B, C, D T4; Nonincendive for installation in Class 1 Division 2 Groups A, B, C, D (FM6320, C22.2 No. 152)

ATEX ⟨Ex⟩
⟨Ex⟩ CE 0518 II 2 G Ex d IIC T4 (FM13ATEX0066)
II 3 G Ex nA d IIC T4 (FM13ATEX0084)

For Class I Division 1 and Division 2 approval information, please refer to the approval drawing in the user manual.

Vertical Orientation

.28 in [7.2 mm]
.98 in [25.0 mm]
1.38 in [35.0 mm]
2x 3/4-14 NPT
5.71 in [145.0 mm]
2.24 in [57.0 mm]
5.00 in [127.0 mm]
2.50 in [63.5 mm]
6.46 in [164.0 mm]
1.71 in [43.3 mm] ACROSS HEX
3.60 in [91.5 mm]
1.50 in [38.1 mm] TO REMOVE SENSOR
1.57 in [40.0 mm]
1.48 in [37.5 mm] ACROSS FLATS
2.00 in [50.8 mm] TO REMOVE COVER
5.03 in [127.8 mm]
2.77 in [70.3 mm]

Horizontal Orientation (Standard)

5.03 in [127.8 mm]
2.77 in [70.3 mm]
4.49 in [114.0 mm]
1.57 in [40.0 mm]
.7 in 9.3 mm]
3.85 in [97.8 mm]
ACROSS FLATS
5.00 in [127.0 mm]
5.71 in [145.0 mm]
1.48 in [37.5 mm]
2.00 in [50.8 mm] TO REMOVE COVER
1.38 in [35.0 mm]
.98 in [25.0 mm]
2X 3/4-14 NPT
.28 in [7.1 mm]
1.71 in [43.3 mm] ACROSS HEX
1.50 in [38.0 mm] TO REMOVE SENSOR

FM APPROVED (C US)
⟨Ex⟩