



Global Cooling Inc.
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MODEL C2H4

ETHYLENE SENSOR/TRANSMITTER

DESCRIPTION

Global Cooling's Model C2H4 gas sensors are designed to detect and continuously monitor ethylene in ambient air. Model C2H4 sensors provide a 2-wire loop powered 4-20 milliamp current signal equivalent to the sensor range of detection. Model C2H4 series sensors feature intelligent electronics and non-intrusive operator interface with automated calibration and comprehensive fault diagnostics. The sensor is packaged in an electro polished 316 stainless steel housing fitted with a 3/4 inch NPT thread. Signal conditioning electronics are completely encapsulated in the sensor housing adding a high level of durability to the design. The packaging is XP-intrinsically safe. Upper enclosure options are aluminum and stainless steel. Additional accessories include a field replaceable transient protection circuit; a loop powered digital display, an alarm relay board and a current to RS-485 converter. The standard serial converter is Modbus RTU. Each sensor is shipped with a splash guard with integral calibration port.



FEATURES

- ▶XP-Intrinsically Safe design
- ▶NEMA 4X enclosure, Fully encapsulated electronics
- ▶Class I, Div. 1, Groups B, C, & D
- ▶2 wire loop powered, Built-in diagnostics

SPECIFICATIONS

Sensor Type	Operating Temperature Range
Electrochemical Fuel Cell	-20°C to +50°C;

Measurement Range -20°C to +65°C (intermittent) 0-100 ppm Ethylene (lower ranges available);

Operating Humidity Range 15-90% RH non-condensing (continuous).

Accuracy/Repeatability 5-99% RH (intermittent) ±2% FS

Input Voltage/Response/Clearing Time 11.5-28 VDC T90 <140 seconds

Power Consumption Span Drift <1/4 watt @ 24 VDC (normal operation) <5% signal loss per year

Electrical Classification Outputs Class 1 Div. 1 Groups BCD (with display) Linear 4-20 mA DC Class 1 Div. 1 Groups ABCD (no display) when used with I.S. barrier

Sensor Life/Warranty Sensor: 2 year warranty; Transmitter: 2 year warranty

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