

Analog Transmitter with Electrochemical Oxygen (O₂) Sensor

Dimensions: Size	5.0" X 5.0" X 2.1" (127 mm x 127 mm x 53 mm)
Weight	7 ounces (200 g)
Construction:	ABS / Polycarbonate blend, water/dust tight, corrosion resistant (IP54 standard with splash guard installed)
Sensor: Type	Electrochemical capillary type
Life Span	2-3 years
Gases Detected:	Oxygen (O ₂)
Sensor Range:	0 – 25% vol standard
System Power:	2-wire: VDC: 16-30 VDC, 1 W, Class 2 3-wire: VDC: 16-30 VDC, 1 Watt, Class 2 4-wire: VAC: 12-27 VAC, 50-60 Hz, 1 VA, Class 2
Temperature:	-20°C to +50°C (-4°F to 122°F), -40°C (-40°F) with internal heater option
Humidity:	15 to 90% non-condensing
Indicators:	Solid Green: Power ON Flashing Green: (50% duty cycle): Warm up Flashing Green (short OFF, long ON): Fault mode LED OFF: No power or 4-20 mA "Open Loop" (unit won't operate)
Signal:	Current: Linear 4-20 mA (Maximum 216 ohm load, wiring plus termination resistor @ 16 VDC) (Maximum 316 ohm load, wiring plus termination resistor @ 12 VAC)
Current Draw:	Maximum 25 mA
Relay:	None
Audible:	None
Accuracy:	No data available
Repeatability:	< 2% of signal
Pressure Sensitivity	<0.1% change of output @ 20 kPa
CO₂ Sensitivity:	+0.1 % change in output / % CO ₂ @ 5% CO ₂
Clean Air Output Drift:	< 2% change @ 3-months
Response Time:	< 15 seconds T ₉₀ from 20.9% to 0%
Resolution:	Display resolution: 0.1% vol Sensor resolution: ± 0.05% vol
Warm Up Time:	Minimum 2 hours before looking at the readings If after a minimum of 2 hours the gas reading is not 20.9%, do a respan.
Safety:	Automatic resetting thermal overload fuse (reset capabilities to 500 times)
Wiring:	VDC or ground referenced VAC, 2 or 3-conductor shielded 18 awg stranded within conduit / VAC 4-conductor shielded 18 awg stranded within conduit
Sensor Mounting:	Breathing Zone 4 to 6 ft / 1.2 to 1.8 m from the floor
Monitoring Area:	5000 ft ² / 465 m ²
Suggested Alarm Points:	Low Alarm: descending 19.5 % vol, Mid Alarm: ascending 23% vol, High Alarm: descending 18.5% vol
Certifications: (tested to)	CSA: C22.2 NO.205-M1983 (R2009) UL: UL508 (Edition 17): 2007 CE: EMC-EN50270:2006, Type-1 & EN61000-4-2 to 11
Note:	Never install gas detectors in the direct path of moving air.

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