

LPT-END Transmitter

Analog Transmitter with Electrochemical Nitrogen Dioxide (NO₂) 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
Life Span	Approximately 3+ years (application & exposure dependent)
Gases Detected:	Nitrogen Dioxide (NO ₂)
Sensor Range:	0 – 10.0 ppm (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
Minimum Detection:	0.1 ppm (with regular calibration maintenance of sensor)
Accuracy:	+/- 0.1 ppm @ STP, across measurement range at time of calibration and at calibration concentration + calibration gas concentration error
Repeatability:	+/- 2% (with regular calibration maintenance of sensor)
Sensitivity Drift:	Zero: <+/-0.02 ppm (with regular calibration maintenance of sensor) Span: <2% signal per month (with regular calibration of sensor)
Response Time:	T ₉₀ = <25 seconds
Resolution:	Display resolution: 0.1 ppm Sensor resolution: 0.1 ppm
Warm Up Time:	2-3 minutes after power up (to full operation)
Cross Sensitivity:	NO ₂ = 100%, H ₂ S <40%, H ₂ = <1%, SO ₂ = <1%, NH ₃ = <1%, NO = <20%, C ₂ H ₆ O = <1%, Cl ₂ = <70%
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:	Heavier than air (vehicle exhaust application: 4'-6' from the floor)
Monitoring Area:	5000 ft ² / 464.5 m ²
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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