



# PRODUCT SPECIFICATION LPT-A-H2O2 Transmitter

## Analog Transmitter with Electrochemical Hydrogen Peroxide (H2O2) Sensors

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| <b>Dimensions: Size</b>                | 5.0" X 5.0" X 2.4" (127 mm x 127 mm x 60.96 mm) (with optional splash guard)   |
| <b>Weight</b>                          | 14 ounces (400 g)  |
| <b>Construction:</b>                   | ABS / Polycarbonate blend, water/dust tight, corrosion resistant (IP54 standard with splash guard installed)   |
| <b>Sensor: Type</b>                    | Electrochemical  |
| <b>Life Span</b>                       | Approximately 2-3+ years (application & exposure dependent)  |
| <b>Gases Detected:</b>                 | Hydrogen Peroxide (H2O2)   |
| <b>Sensor Range:</b>                   | 0 – 5000 ppm standard (other ranges available upon request)  |
| <b>System Power:</b>                   | 3-wire: VDC: 12-30 VDC, 3-Watts<br>4-wire: VAC: 12-27VAC, 3-VA   |
| <b>Temperature:</b>                    | -30°C to +50°C (-22°F to 122°F), -40°C (-40°F) with LCD heater option  |
| <b>Humidity:</b>                       | 15 to 90% non-condensing   |
| <b>Indicators:</b>                     | LCD digital display, back lit, 128 X 64 pixel graphic (optional heater - applications to -40C)   |
| <b>Signal:</b>                         | Current: Linear 4-20 mA (maximum 216 ohm load, wiring plus termination resistor @ 12VDC) Maximum 316 ohm load, wiring plus termination resistor @ 12VAC<br>Voltage: 0-10 Volt, Minimum 1k ohm load |
| <b>Relay:</b>                          | One dry contact relay rated 2-amps @ 30v S.P.D.T.  |
| <b>Audible:</b>                        | Internal audible alarm (user controlled)   |
| <b>Minimum Detection:</b>              | 1 ppm (with regular calibration maintenance of sensor)   |
| <b>Accuracy:</b>                       | +/- 2.5% of range @ STP, across measurement range at time of calibration and at calibration concentration + calibration gas concentration error  |
| <b>Repeatability:</b>                  | <3% of signal (with regular calibration maintenance of sensor)   |
| <b>Sensitivity Drift:</b>              | Zero: <0.1 ppm equivalent change/year in lab air. Span: <3% change/year in lab air   |
| <b>Response Time:</b>                  | <25 seconds T <sub>90</sub> from 0 to 400 ppm CO   |
| <b>Resolution:</b>                     | Display resolution 1 ppm   |
| <b>Warm Up Time:</b>                   | 2-3 minutes after power up (to full operation)   |
| <b>Cross Sensitivity:</b>              | CO 1:1, H2S 20 PPM = <200, NO2 10 PPM = <50, Cl2 10 ppm = <-1, NO 50 ppm = <80, SO2 20 ppm = <50, H2 400 ppm = <65, C2H4 400 ppm = <65, NH3 20 ppm = <0.1  |
| <b>Safety:</b>                         | Automatic resetting thermal overload fuse (reset capabilities to 500 times)  |
| <b>Wiring:</b>                         | VDC or ground referenced VAC, 3-conductor shielded 18 awg stranded<br>VAC 4-conductor shielded 18 awg stranded   |
| <b>Sensor Mounting:</b>                | Slightly heavier than air 12" from floor   |
| <b>Monitoring Area:</b>                | 3000 - 5000 sq. ft.  |
| <b>Certifications:<br/>(tested to)</b> | CSA: C22.2 NO.205-M1983 (R2009)<br>UL: UL508 (Edition 17): 2007<br>CE: EMC-EN50270:2006, Type-1 & EN61000-4-2 to 11  |
| <b>Note:</b>                           | Never install gas detectors in the direct path of moving air.  |

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