

## Analog Transmitter with Electrochemical Oxygen (O<sub>2</sub>) Sensors

| Standard Enclosure            |                                                                                                                                                                                                   |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Dimensions: Size</b>       | 5.0" x 5.0" x 2.1" (127 mm x 127 mm x 53 mm) (without optional splash guard)                                                                                                                      |
| <b>Weight</b>                 | 5.0" x 5.0" x 2.4" (127 mm x 127 mm x 60.96 mm) (with optional splash guard)<br>14 ounces (400 g)                                                                                                 |
| <b>Construction</b>           | ABS / Polycarbonate blend, water/dust tight, corrosion resistant<br>(meets IP54 standard with optional splash guard installed)                                                                    |
| <b>Sensors: Type</b>          | Electrochemical capillary type                                                                                                                                                                    |
| <b>Life Span</b>              | 36-months until 85% original output in 20.9% O <sub>2</sub>                                                                                                                                       |
| <b>Gases Detected</b>         | Oxygen                                                                                                                                                                                            |
| <b>Sensor Range</b>           | 0 – 25.0% Volume                                                                                                                                                                                  |
| <b>System Power</b>           | 16-30 VDC, 3 W, Class 2 or 12-27 VAC, 50-60 Hz, 3 VA, Class 2                                                                                                                                     |
| <b>Temperature</b>            | -20°C to 40°C (-4°F to 104°F)                                                                                                                                                                     |
| <b>Humidity</b>               | 5 – 90% RH non-condensing, <0.7% O <sub>2</sub> change 0% to 95% @ 40C                                                                                                                            |
| <b>Indicators</b>             | 128 X 64 pixel graphic back lit LCD digital display                                                                                                                                               |
| <b>Signal</b>                 | Current: Linear 4-20 mA (maximum 216 ohm load, wiring plus termination resistor @ 16VDC) Maximum 316 ohm load, wiring plus termination resistor @ 12VAC<br>Voltage: 0-10 VDC, 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>Repeatability</b>          | < 2% of signal                                                                                                                                                                                    |
| <b>Resolution</b>             | 0.1% volume                                                                                                                                                                                       |
| <b>Pressure Sensitivity</b>   | <0.1% change of output @ 20 kPa                                                                                                                                                                   |
| <b>Maximum Zero Shift</b>     | ± 0.2 ppm equivalent                                                                                                                                                                              |
| <b>Clean Air Output Drift</b> | < 2% change @ 3-months                                                                                                                                                                            |
| <b>Response Time</b>          | < 15 seconds T <sub>90</sub> from 20.9% to 0%                                                                                                                                                     |
| <b>Fusing</b>                 | Automatic resetting thermal overload fuse (reset capabilities to 500 times)                                                                                                                       |
| <b>Wiring</b>                 | VDC three conductor shielded 18 awg stranded<br>VAC four conductor shielded 18 awg stranded                                                                                                       |
| <b>Calibration</b>            | Every 6 months (for best repeatability & performance) or once a year<br>(depending on application)                                                                                                |
| <b>Certifications</b>         | CSA: C22.2 NO.205-M1983 (R2009)<br>UL: UL508 (Edition 17): 2007<br>CE: EN61010-1:2010 & EMC-EN50270:2006                                                                                          |
| <b>Note</b>                   | Never install gas detectors in the direct path of moving air.                                                                                                                                     |

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