



PRODUCT SPECIFICATION

LPT-B-SO2 Transmitter

Digital (BACnet®) Transmitter with Electrochemical Sulphur Dioxide (SO₂) Sensor

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| Dimensions: Size | 5.0" X 5.0" X 2.8" (127 mm x 127 mm x 71 mm) (dimensions without optional splash guard) |
| Weight | 5.0" X 5.0" X 3.3" (127 mm x 127 mm x 84 mm) (dimensions with optional splash guard) 14 ounces (400 g) |
| Construction | ABS / Polycarbonate blend, water/dust tight, corrosion resistant (meets IP54 standard with optional splash guard installed) |
| Sensor: Type | Electrochemical |
| Life Span | Approximately 2 years (application dependent) |
| Gases Detected | Sulphur Dioxide (SO ₂) |
| Sensor Range | 0 – 20 ppm standard |
| System Power | 3-wire: VDC: 12-30 VDC, 3-Watts 4-wire: VAC: 12-27VAC, 3-VA |
| Temperature | -30°C to +50°C (-22°F to 122°F), -40°C (-40°F) with LCD heater option |
| Humidity | 15 to 90% non-condensing |
| Indicators | LCD digital display, back lit, 128 X 64 pixel graphic (optional heater - applications to -40C) |
| Signal | BACnet® MS/TP |
| Relay | One dry contact relay rated 2-amps @ 30v S.P.D.T. |
| Audible | Internal audible alarm (user controlled) |
| Minimum Detection | 0.1 ppm (with regular calibration maintenance of sensor) |
| Accuracy | +/- 0.1 ppm @ STP, across measurement range at time of calibration with SO ₂ and at calibration concentration + calibration gas concentration error |
| Repeatability | 5% (with regular calibration maintenance of sensor) |
| Sensitivity Drift | Zero: <+/-0.8 ppm (with regular calibration maintenance of sensor) +20 to -20C Zero: <+/- 3 ppm (with regular calibration maintenance of sensor) +20C to +50C Span: <4% signal per month (with regular calibration of sensor) |
| Response Time | <35 seconds (0-10 ppm) T ₉₀ |
| Resolution | Display resolution 0.01 ppm, sensor resolution: 0.02 ppm |
| Warm Up Time | 5- minutes after power up (to full operation) |
| Cross Sensitivity | H ₂ S 20 ppm = <3, NO ₁₀ ppm = <130, Cl ₂ 10 ppm = <-60, NO 50 ppm = <+/-2, CO 400 ppm = <1.6, H ₂ 400 ppm = <0.3, C ₂ H ₄ 400 ppm = <40, NH ₃ 20 ppm = <0.1 |
| Safety | Automatic resetting thermal overload fuse (reset capabilities to 500 times) |
| Wiring | 4-wire VAC/VDC, 16 awg, 4-conductor shielded network wiring (daisy chain) |
| Sensor Mounting | Heavier than air, 6" from the floor |
| Monitoring Area | 3000 sq. ft. |
| Certifications | CSA: C22.2 NO.205-12 UL: UL508 (Edition 17): 2007 CE: EMC Directive 2004/108/EC, EN50270:2006, Type-1 & EN61010 FCC Listed by BTL |
| Note | Never install gas detectors in the direct path of moving air. |

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