



# Critical Environment Technologies

Unit 145, 7391 Vantage Way Delta, BC, Canada V4G 1M3

phone 604-940-8741 fax 604-940-8745

www.critical-environment.com

## AST-END SPECIFICATION SHEET

### ANALOG TRANSMITTERS WITH ELECTROCHEMICAL NITROGEN DIOXIDE SENSORS

| <b>Dimensions:</b>        | <b><u>Standard Enclosure</u></b>  | <b><u>Optional Watertight Enclosure</u></b>                               |
|---------------------------|---|---|
|                           | Size: 4.5" X 6.1" X 2.6"<br>(115mm x 155mm x 66mm)<br>Weight: 9 ounces (255 g)  | Size: 5" X 5" X 3"<br>(125mm x 125mm x 75mm)<br>Weight: 12 ounces (340 g) |
|                           | * Optional duct sampling kits available for duct monitoring   |   |
| <b>Construction:</b>      | Rugged PVC (with hinged door)   | Rugged Polycarbonate (with hinged door)                                   |
| <b>Sensors:</b>           | Type: electrochemical<br>Calibration: one to two times per year (application dependent)   |   |
| <b>Sensor Range:</b>      | Nitrogen Dioxide: 0 to 10 ppm<br>• Other ranges are also available.   |   |
| <b>Sensor Life Span:</b>  | Approximately three years "plus" in clean, ambient air environment.   |   |
| <b>System Power:</b>      | VDC: 20 to 30 VDC VAC: 16 - 28 VAC (approximately 40 to 55 mA current draw)   |   |
| <b>Humidity:</b>          | 10% to 95% non-condensing   |   |
| <b>Temperature:</b>       | -20° C to 50° C -5° F to 120° F   |   |
| <b>Signal:</b>            | 4 - 20 mA or 0 – 10 VDC, linear over entire sensor range  |   |
| <b>Repeatability:</b>     | 2% of signal with regular calibration   |   |
| <b>Cross sensitivity:</b> | Chlorine: 1.0 ppm = 0.9 ppm,  |   |
| <b>Visual Indicators:</b> | LED (green) power indicator (standard)<br>Optional: Local digital display (4 character)   |   |
| <b>Relay:</b>             | Optional: One field settable, SPDT dry contact rated 2 A @ 28VDC or VAC   |   |
| <b>Fusing:</b>            | Automatic resetting thermal overload fuse (reset capabilities to 500 times)   |   |
| <b>Wiring:</b>            | 18 - 22 gauge wire (3-conductor for VDC, 4-conductor for VAC applications)  |   |
| <b>Sensor Mounting:</b>   | 4' to 6' from floor for most parking garage applications, application dependent   |   |
| <b>Notes:</b>             | 1) Never install gas detection sensors in the direct path of moving air, such as exhaust fans, make-up air fans, elevator shafts, ramps, ducts, etc. For duct applications use duct kit.<br>2) If vandalism is a concern, heavy metal (16 gauge) transmitter guards are available. They are easily installed over the transmitters. |   |