



# 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-002 and AST-002-W SPECIFICATION SHEET

### ANALOG TRANSMITTERS WITH ELECTROCHEMICAL OXYGEN SENSORS

<b>Dimensions:</b>	<b><u>Standard Enclosure</u></b>	<b><u>Optional Watertight Enclosure</u></b>
	Size: 4 1/2" X 6 1/8" X 2 9/16" Weight: 9 ounce * Optional duct sampling kits available for duct monitoring (watertight only)	Size: 5" X 5" X 3" Weight: 12 ounces
<b>Construction:</b>	Rugged PVC (with hinged door)	Rugged Polycarbonate (with hinged door)
<b>Sensors:</b>	Type: electrochemical fuel cell Calibration: one to four times per year (application dependent)	
<b>Sensor Range:</b>	0 – 25% volume (optional 0 – 30% volume)	
<b>Sensor Life Span:</b>	Approximately 2 years 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>System Circuit:</b>	Circuit: Solid-state design	
<b>Temperature:</b>	-20° C to 50° C      -5° F to 120° F	
<b>Humidity:</b>	5% to 95% non-condensing	
<b>Signal:</b>	4 - 20 mA, linear over entire sensor range Optional 0 – 10 V	
<b>Response Time:</b>	t95 (s) <15 seconds	
<b>Resolution:</b>	0.1% volume	
<b>Sensitivity Drift:</b>	<1% signal / month (<10% over operating life with regular calibration)	
<b>Pressure Range:</b>	Atmospheric +/- 10%	
<b>Visual Indicators:</b>	LED (green) power indicator, visible through label window Optional: Local LED digital display (4 character)	
<b>Relay:</b>	Optional: One field settable, S.P.D.T. 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>	Application dependent (typically 4' to 6' from the floor)	