



Critical Environment Technologies

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AST-EAM SPECIFICATION SHEET

ANALOG TRANSMITTERS WITH ELECTROCHEMICAL AMMONIA SENSORS

LOW TEMPERATURE APPLICATIONS

Dimensions:	<u>Standard Enclosure</u>	<u>Optional Watertight Enclosure</u>
	Size: 4.5" x 6.1" x 2.6" (115mm x 155mm x 66mm) Weight: 9 ounces (255 g) * Optional duct sampling kits available for duct monitoring	Size: 5" X 5" X 3" (125mm x 125mm x 75mm) Weight: 12 ounces (340 g)
Construction:	Rugged PVC (with hinged door)	Rugged Polycarbonate (with hinged door)
Sensors:	Type: electrochemical Calibration: one to four times per year (application dependent)	
Sensor Range:	0 – 500 ppm • Other ranges are also available. Contact C.E.T. regarding gases not listed above.	
Sensor Life Span:	Approximately 1 to 2 years in clean, ambient air environment with no background gas.	
System Power:	VDC: 20 to 30 VDC VAC: 16 - 28 VAC (approximately 40 to 55 mA current draw)	
System Circuit:	Microprocessor based solid-state design with temperature compensation	
Temperature:	-40° C to 40° -40° F to 104° F	
Humidity:	10% to 95% non-condensing	
Signal:	4 - 20 mA <u>or</u> 0 – 10 VAC, linear over sensor range	
Relays:	Optional: One field settable, SPDT dry contact rated 2 amps @ 28VDC or VAC	
Response Time:	t90 less than 90 seconds (typically 60 seconds)	
Resolution:	1 ppm	
Long Term Drift:	less than 2% per month	
Visual Indicators:	LED indication of power and alarm condition Optional: LED digital display (4 character)	
Fusing:	Automatic resetting thermal overload fuse (reset capabilities to 500 times)	
Wiring:	18 - 22 gauge wire (3-conductor for VDC, 4-conductor for VAC applications)	
Sensor Mounting:	On or near the ceiling, Ammonia is lighter than air	