



Critical Environment Technologies

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AST-EFO & AST-EFO-W SERIES SPECIFICATION SHEET

ANALOG TRANSMITTERS WITH ELECTROCHEMICAL FORMALDEHYDE (CH₂O) SENSORS

Dimensions:	<u>Standard Enclosure (AST-EFO)</u>	<u>Optional Watertight Enclosure (AST-EFO-W)</u>
	Size: 4.5" x 6.1" x 2.6" (115mm x 155mm x 66mm) Weight: 9 ounce (255 g)	Size: 5" X 5" X 3" (125mm x 125mm x 75mm) Weight: 12 ounces (340 g)
Construction:	Rugged Polycarbonate (with hinged door)	Rugged Polycarbonate (with hinged door)
Sensors:	Type: electrochemical Life span: approximately 2 to 3 years Calibration: one to two times per year (application dependent)	
Sensor Range:	0 to 10 ppm	
System Power:	VDC: 15 to 30 VDC VAC: 16 - 28 VAC (approximately 80 mA current draw)	
Temperature:	-20° C to 45° C -4° F to 113° F	
Humidity:	15% to 95% non-condensing	
Signal:	4 - 20 mA or 0 – 10 V linear over entire sensor range	
Relay:	Optional, one field settable dry contact relay rated 2 amps @ 30 V	
Visual Indicators:	LED, green "power on" indicator Optional, 4-character local LED digital display	
Accuracy:	+/- 1 ppm with regular 6-month calibration maintenance	
Cross sensitivity:	Carbon Monoxide (<80%), Hydrogen (<20%), other reducing gases such as alcohol Note: Formalin (commercial grade Formaldehyde contains methanol)	
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:	Heavier than air: Application dependent	
Notes:	1) Performance data conditions: 20 deg. C, 50% RH, 1013 mbar 2) Correlation gas is used to factory calibrate this sensor	