



Critical Environment Technologies

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ATW-EFO & ATW-EFO-W SPECIFICATION SHEET

2-WIRE ANALOG TRANSMITTERS WITH ELECTROCHEMICAL FORMALDEHYDE SENSORS

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)	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 Calibration: two times per year (application dependent)	
Sensor Range:	0 to 10 ppm (nominal range, other ranges also available, maximum 0 to 50 ppm).	
Sensor Life Span:	Approximately two years in clean, ambient air environment	
System Power:	VDC: 12 to 28 VDC	
Temperature:	-20° C to 50° C -4° F to 113° F	
Humidity:	15% to 90% non-condensing	
Signal:	4 - 20 mA linear over entire sensor range	
Repeatability:	<2% of signal	
Long Term Drift:	<2% signal loss / month	
Response Time:	t50 = <80-seconds	
Cross sensitivity:	Carbon Monoxide (10%-18%), Hydrogen (1%-3%), other reducing gases such as alcohol Note: Formalin (commercial grade formaldehyde) contains methanol	
Visual Indicators:	LED (green) power indicator (standard)	
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	
Notes:	<ol style="list-style-type: none">1) Never install gas detection sensors in the direct path of moving air2) If vandalism is a concern, heavy metal (16 gauge) transmitter guards are available. They are easily installed over the transmitters3) Performance data conditions: 20°C, 50% RH, 1013 mbar4) Correlation gas is used to calibrate Formaldehyde sensor	