



Critical Environment Technologies

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AST SERIES SPECIFICATION SHEET

ANALOG TRANSMITTERS WITH ELECTROCHEMICAL 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)	Size: 5" X 5" X 3" (125mm x 125mm x 75mm)
	Weight: 9 ounce (255 g)	Weight: 12 ounces (340 g)
	* Optional duct sampling kits available for duct monitoring	
Construction:	Rugged PVC (with hinged door)	Rugged Polycarbonate (with hinged door)
Sensors:	Type: electrochemical	
	Life span: approximately 2.5 to 3.5 years (normal operating conditions)	
	Calibration: two to four times per year (application dependent)	
Sensor Ranges:	Carbon Monoxide: 0 to 250 ppm (AST-ECO), Sulphur Dioxide: 0 to 10 ppm (AST-ESO-W), Chlorine: 0 to 5 ppm (AST-ECL-W), Hydrogen Sulphide: 0 to 50 ppm (AST-EHS-W), Ammonia: 0 to 50 ppm (AST-EAM), Nitric Oxide: 0 - 100 ppm (AST-ENO), Nitrogen Dioxide: 0 to 5 ppm (AST-END), Oxygen: 0 - 25% Volume (AST-OO2), Hydrogen: 0 to 1000 ppm (AST-EH2)	
	* Other ranges available on request	* Other gases are also available.
System Power:	VDC: 20 to 30 VDC VAC: 16 - 28 VAC (approximately 40 – 50 mA current draw)	
Temperature:	-20° C to 40° C -5° F to 104° F	
Humidity:	10% to 95% non-condensing	
Signal:	4 - 20 mA or 0 – 10 V linear over entire sensor range	
Relay:	Optional relay rated 2 A @ 24 VDC	
Visual Indicators:	LED, green "power on" indicator	
Accuracy:	Accuracy varies from sensor to sensor	
Cross sensitivity:	Some sensors respond to interference gases. Contact CET for more information	
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:	Carbon Monoxide (slightly lighter than air):	4' to 6' from floor (Breathing Zone)
	Chlorine (heavier than air)	6" from floor
	Ammonia (lighter than air):	near or on ceiling
	Nitrogen Dioxide (heavier than air)	Breathing zone for most applications
	Sulphur Dioxide (heavier than air)	6" from floor
	Oxygen	4' to 6' from floor
	Hydrogen (lighter than air)	near or on ceiling