



Critical Environment Technologies

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AST-S SERIES SPECIFICATION SHEET

ANALOG TRANSMITTERS WITH SOLID STATE REFRIGERANT 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 (watertight only)	
Construction:	Rugged PVC (with hinged door)	Rugged Polycarbonate (with hinged door)
Sensors:	Type: Temperature compensated, non-specific , solid-state	
	Life span: approximately 5 years	
	Calibration: one to two times per year (application dependent)	
Sensor Range:	0 – 2000 ppm standard, calibrated to the desired refrigerant gas	
System Power:	VDC: 18 to 30 VDC VAC: 16 - 28 VAC (approximately 80 to 120 mA current draw)	
System Circuit:	Circuit: Solid-state design with temperature compensation	
Temperature:	0 C. to +40 C. (32 F. to +104 F)	
Humidity:	0 to 90% non-condensing (some drifting will occur from increased humidity)	
Indicators:	Optional local LED digital display	
Signal:	4 - 20 mA or 0 – 10 V linearized output	
	Optional relay	
	fail signal: drops to "0" mA if sensor is removed or burned out	
Accuracy:	+/- 10% of measured signal (above 35 ppm)	
Cross sensitivity:	Many other gases and especially vehicle exhaust	
Fusing:	Automatic resetting thermal overload fuse (reset capabilities to 500 times)	
Wiring:	18 - 20 gauge wire (3-conductor for VDC, 4-conductor for VAC applications)	
Sensor Mounting:	Heavier than air, 6" from floor	
Notes:	1) Never install gas detection sensors in the direct path of moving air, such as exhaust fans, make-up air fans, elevator shafts, ramps, ducts, etc. 2) If vandalism is a concern, heavy metal (16 gauge) transmitter guards are available. They are easily installed over the transmitters.	