



Critical Environment Technologies

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AST-S SERIES SECOND GENERATION TRANSMITTERS SPECIFICATION SHEET

ANALOG TRANSMITTERS WITH SOLID STATE 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) * Optional duct sampling kits available for duct monitoring (watertight only)	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: Non-specific, solid-state Temperature compensated (optional humidity compensation) <u>Note:</u> humidity compensation is standard with refrigerant sensors Life span: approximately 5 years Calibration: one to two times per year (application dependent)	
Sensor Range:	Combustible gases: Solid-state sensor 0 – 50% LEL * Calibrated for Methane, Propane, Hydrogen or other combustibles Refrigerants: 0 – 2000 ppm standard (AST-SR0, AST-SR1, AST-SR2)	
System Power:	VDC: 16 to 30 VDC VAC: 12 - 30 VAC (approximately 80 to 120 mA current draw)	
System Circuit:	Microprocessor based with temperature compensation	
Temperature:	-20 C. to +40 C. (-4 F. to +104 F)	
Humidity:	0 to 90% non-condensing	
Indicators:	Optional local LED digital display (3.5 digit)	
Signal:	* 4 - 20 mA or 0 – 10 V linearized output (jumper selectable) * Optional: one dry contact relay (2 amps @ 30V SPDT) * Fail signal: drops to "0" mA if sensor is removed or burned out	
Repeatability:	+/- 10% of measured signal (solid-state combustible sensor) +/- 10% of measured signal above 100 ppm (solid-state refrigerant sensor)	
Cross sensitivity:	Solid-state refrigerant sensor: Many other gases and especially vehicle exhaust Solid-state combustible sensor: Responds to all combustible gases & vapours	
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:	Mounting height varies according to target gas	