



Critical Environment Technologies

Unit 145, 7391 Vantage Way Delta, BC, Canada V4G 1M3

phone 604-940-8741 fax 604-940-8745

www.critical-environment.com

AST-SPL-W SERIES PID-TVOC SPECIFICATION SHEET

ANALOG TRANSMITTERS WITH PID TVOC SENSORS

Dimensions:	<u>Standard Watertight Enclosure</u> Size: 5" X 5" X 3" (125mm x 125mm x 75mm) Weight: 12 ounces (340 g)
Construction:	Rugged Polycarbonate (with hinged door)
Sensors:	Type: PID (10.6eV lamp energy) Life span: approximately 5-years (excluding replaceable lamp and electrode stack) Calibration: Two times per year or more often (application dependent)
Gases Detected:	TVOCs (Total Volatile Organic Compounds). Includes extensive range of gases and chemicals
Sensor Range:	0 – 50.0 ppm standard, calibrated with Isobutylene span gas
System Power:	VDC: 18 to 30 VDC VAC: 16 - 28 VAC (approximately 120 mA current draw)
Temperature:	-40 C to +55 C (-40 F to 131 F)
Humidity:	0 to 95% non-condensing
Indicators:	<u>Optional</u> local LED digital display
Signal:	4 - 20 mA or 0 – 10 V linearized output <u>Optional</u> relay 2-amperes @ 30V S.P.D.T. fail signal: drops to "0" mA if sensor is removed or burned out
Minimum detection:	5 ppb Isobutylene
Stabilization time:	20-minutes to 20 ppb for full stabilization
Warm up time:	5-seconds (to full operation)
Response time:	<3-seconds t_{90}
Cross sensitivity:	Many other gases, vapours, chemicals
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 (typically)
Notes:	Never install gas detection sensors in the direct path of moving air