



Critical Environment Technologies

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DST SERIES SPECIFICATION SHEET

DIGITAL 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) Weight: 9 ounce (255 g) * Optional duct sampling kits available for duct monitoring	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: 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 200 ppm (DST-MCO), Sulphur Dioxide: 0 to 10 ppm (DST-ESO-W), Chlorine: 0 to 5 ppm (DST-ECL-W), Hydrogen Sulphide: 0 to 50 ppm (DST-EHS-W), Ammonia: 0 to 50 ppm (DST-EAM), Nitric Oxide: 0 - 100 ppm (DST-ENO), Nitrogen Dioxide: 0 to 5 ppm (DST-END), Oxygen: 0 - 25% Volume (DST-OO2), Hydrogen: 0 to 1000 ppm (DST-EH2) * Other ranges available on request	* Other gases are also available.
System Power:	VDC: 20 to 30 VDC (approximately 40 – 50 mA current draw)	
Temperature:	-20° C to 40° C -5° F to 104° F	
Humidity:	10% to 95% non-condensing	
Signal:	Digital output on RS-485 communication bus, linear over entire sensor range	
Visual Indicators:	LED, green "power on" indicator LED alarm indication	
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:	Communication - 18 gauge twisted pair, shielded Power – two conductor 14 gauge stranded	
Sensor Mounting:	Carbon Monoxide (slightly lighter than air): Chlorine (heavier than air) Ammonia (lighter than air): Nitrogen Dioxide (heavier than air) Sulphur Dioxide (heavier than air) Oxygen Hydrogen (lighter than air)	4' to 6' from floor (Breathing Zone) 6" from floor near or on ceiling Breathing zone for most applications 6" from floor 4' to 6' from floor near or on ceiling