



# 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

## BST SERIES SPECIFICATION SHEET

### BACnet TRANSMITTERS WITH ELECTROCHEMICAL SENSORS

<b>Dimensions:</b>	<b><u>Standard Enclosure</u></b>	<b><u>Optional Watertight Enclosure</u></b>
	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	
<b>Construction:</b>	Rugged PVC (with hinged door)	Rugged Polycarbonate (with hinged door)
<b>Sensors:</b>	Type: electrochemical Life span: approximately 2 to 3.5 years (normal operating conditions) Calibration: one to two times per year (application dependent)	
<b>Sensor Ranges:</b>	Carbon Monoxide: 0 to 200 ppm (BST-MCO), Sulphur Dioxide: 0 to 10 ppm (BST-ESO-W), Chlorine: 0 to 5 ppm (BST-ECL-W), Hydrogen Sulphide: 0 to 50 ppm (BST-EHS-W), Ammonia: 0 to 50 ppm (BST-EAM), Nitric Oxide: 0 - 100 ppm (BST-ENO), Nitrogen Dioxide: 0 to 10 ppm (BST-END), Oxygen: 0 - 25% Volume (BST-OO2), Hydrogen: 0 to 1000 ppm (BST-EH2) * Other ranges available on request	
		* Other gases are also available.
<b>System Power:</b>	VDC: 18 to 30 VDC (approximately 50 – 60 mA current draw)	
<b>Temperature:</b>	-20° C to 40° C    -5° F to 104° F	
<b>Humidity:</b>	10% to 95% non-condensing	
<b>Signal:</b>	BACnet communication on MSTP bus, linear over entire sensor range	
<b>Visual Indicators:</b>	LED, green "power on" indicator LED alarm indication	
<b>Accuracy:</b>	Accuracy varies from sensor to sensor	
<b>Cross sensitivity:</b>	Some sensors respond to interference gases. Contact CET for more information	
<b>Fusing:</b>	Automatic resetting thermal overload fuse	
<b>Wiring:</b>	Communication - 18 gauge twisted pair, shielded Power – two conductor 16 gauge stranded	
<b>Sensor Mounting:</b>	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