



## **Critical Environment Technologies**

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### **SPECIFICATION SAMPLE # BST-2**

## **Carbon Monoxide & Nitrogen Dioxide BACnet Transmitters for Parking Garages**

Provide BST series BACnet transmitters, capable of being connected directly to a BACnet building automation system. The transmitter shall be capable of communicating via BACnet MSTP protocol with a BACnet controller / head end. Provide transmitters for the Nitrogen Dioxide detection range of 0 - 10 ppm and transmitters for the Carbon Monoxide detection range of 0 - 200 ppm. The transmitters shall be a CET model BST-MCO for Carbon Monoxide and a model BST-END for Nitrogen Dioxide. All transmitters shall incorporate accurate electrochemical sensors and automatic resetting thermal fuse for fault protection. The transmitters shall be installed 4' - 6' from the floor (breathing zone) and each unit shall be capable of monitoring an area of approximately 5000 to 7500 sq. ft. each.

The transmitter circuit shall be housed in a wall mount, rugged, break resistant, corrosion resistant, PVC junction box with a secured, hinged door. The transmitter shall operate on 24 VDC or 24 VAC (nominal) input voltages. The PVC junction box shall have conduit entry ports on the top, bottom, right side and rear. An optional watertight Polycarbonate enclosure shall be available. Digital display and relay output shall be available options.

Wiring shall be 2 conductor 16 gauge for low voltage power, and a 18 gauge two wire low capacitance shielded twisted pair for the communication bus.

System operation shall be as follows: Upon detection of 0.7 ppm NO<sub>2</sub> or 25 ppm CO, the BACnet controller shall activate exhaust fans. Upon detection of 1.5 ppm NO<sub>2</sub> or 100 ppm CO, the BACnet controller shall activate higher ventilation level and audible / visual alarms.

Contractor shall provide all wiring, conduit and interconnection required for a successful installation.

#### **Approved manufacturer:**

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