



## **Critical Environment Technologies**

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### **ENGINEERING SPECIFICATION SAMPLE # AST-1**

## ***Carbon Monoxide & Combustible Gas Transmitters for Parking Garages***

Provide analog transmitters with continuous, linear, analog signal capable of being connected directly to a building management system (BMS). The analog transmitter shall be a CET model AST-MCO for Carbon Monoxide and a model AST-SCB for combustibles. The transmitters shall provide a 4-20 mA signal representing a Carbon Monoxide measurement range of 0 - 200 ppm CO or 0 - 50% LEL Propane (or other combustible gases / vapours). The circuit shall incorporate long-life HVAC electrochemical sensor for CO and long life solid-state sensors for combustibles with temperature compensation and an automatic resetting thermal fuse for fault protection.

Optional 0 - 10 Volt output signal and relay output shall be available.

The transmitter circuit shall be housed in a wall mount, rugged, break resistant, corrosion resistant, PVC junction box with a secured, hinged door. The circuit shall be capable of operating from 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. Wiring shall be 3-conductor shielded cable or conduit for VDC installation or 4-conductor shielded cable or conduit for VAC installation. An optional watertight Polycarbonate enclosure shall be available.

Provide current signal readings to the installing contractor to allow accurate setting of BMS for fan control at 25 ppm CO or 10% LEL Propane and a secondary alarm condition at 100 ppm CO or 20% LEL Propane.

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

#### **Approved manufacturer:**

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