



Critical Environment Technologies

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ENGINEERING SPECIFICATION SAMPLE # DST-1

Carbon Monoxide & Combustible Gas Transmitters for Parking Garages

Provide digital transmitters with continuous, linear, signal capable of being connected to a PDC controller on a RS-485 communication bus. The transmitter shall be a CET model DST-MCO for Carbon Monoxide and a model DST-SCB for combustible gases. The transmitters shall provide a digital signal representing a Carbon Monoxide measurement range of 0 - 200 ppm CO or 0 - 50% LEL Propane (or other Combustibles gases / vapours). The circuit shall incorporate a long-life HVAC electrochemical sensor for CO or a long life solid-state sensor for combustibles with temperature compensation and an automatic resetting thermal fuse for fault protection.

The transmitter circuit shall be housed in a wall mount, rugged, break resistant, corrosion resistant, PVC junction box with a secured, hinged door. The PVC junction box shall have conduit entry ports on the top, bottom, right side and rear. The circuit shall operate from 24 VDC input voltage supplied from the controller. Wiring shall be 2 conductors for low voltage power, and a two wire shielded twisted pair for the communication bus. Wiring shall be shielded or in conduit. An optional watertight Polycarbonate enclosure shall be available.

Provide digital signal readings to the controller to allow accurate settings 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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