



Critical Environment Technologies

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ENGINEERING SPECIFICATION SAMPLE # DST-3

Nitrogen Dioxide Transmitters for Diesel Exhaust Detection

Provide digital transmitters with continuous, linear, signal capable of being connected to a controller by a RS-485 communication bus. The transmitter shall be a CET model DST-END for Nitrogen Dioxide. The transmitters shall provide a digital signal representing the Nitrogen Dioxide detection range of 0 - 10 ppm. The 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 SF.

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 twisted pair for the communication bus. Wiring shall be shielded or in conduit. An optional watertight Polycarbonate enclosure shall be available.

System operation shall be as follows: Upon detection of 0.7 ppm NO₂, the controller shall activate exhaust fans. Upon detection of 1.5 ppm NO₂, the controller shall activate audible and visual alarms.

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

Approved manufacturer:

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