



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

ENGINEERING SPECIFICATION SAMPLE # ATW-2

Carbon Monoxide & Nitrogen Dioxide Transmitters for Parking Garages

Provide analog transmitters, with continuous, linear, analog signal capable of being connected directly to a building management system (BMS). The transmitter shall provide a 4-20 mA signal representing the quantitative measurement range of the gas it has been designed to detect. The transmitters shall be loop powered and operate in a two wire configuration. Provide transmitter **model ATW-END** for the Nitrogen Dioxide detection range of 0 - 10 ppm and transmitter **model ATW-MCO** for the Carbon Monoxide detection range of 0 - 200 ppm. All transmitters shall incorporate accurate electrochemical sensors and automatic resetting thermal fuse for fault protection. The transmitters shall be installed 4' to 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 circuit will be powered by 24 VDC (nominal) input voltage. Wiring shall be 2 conductor 18 gauge shielded cable or in conduit for VDC installation. 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.

System operation shall be as follows: Upon detection of 0.7 ppm NO₂ or 25 ppm CO, the BMS shall activate exhaust fans. Upon detection of 1.5 ppm NO₂ or 100 ppm CO, the BMS 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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