



Critical Environment Technologies

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ATW-MCO & ATW-MCO-W SPECIFICATION SHEET

TWO WIRE ANALOG TRANSMITTERS WITH ELECTROCHEMICAL CARBON MONOXIDE SENSORS

- Dimensions:**
- | | | |
|--|---|--|
| | <u>Standard Enclosure</u> | <u>Optional Watertight Enclosure</u> |
| | Size: 4.5" x 6.1" x 2.6"
(115mm x 155mm x 66mm) | Size: 5" X 5" X 3"
(125mm x 125mm x 75mm) |
| | Weight: 9 ounces (255 g) | Weight: 12 ounces (340 g) |
| | * Optional duct sampling kits available for duct monitoring | |
- Construction:** PVC (general purpose, hinged, secured door) Polycarbonate (water tight, hinged, secured door)
- Sensors:** Type: electrochemical
Calibration: one to two times per year (application dependent)
- Calibration:** Automated: 1) Span gas concentration value: Move jumper to correct position and set value
2) Null adjustment: Move jumper to correct position, flow clean air. Circuit automatically adjusts null value for accuracy
3) Span adjustment: Move jumper to correct position, flow span gas. Circuit automatically adjusts span value for accuracy
- Note:** Firmware has safety corrections that prevent null adjustment in background gas and span adjusting with clean air or wrong gas concentration
- System Power:** 12 to 28 VDC
- System Circuit:** Microprocessor based, user configurable
- Signal:** 4 - 20 mA loop, linear over entire sensor range
- Visual Indicators:** One green LED (solid=normal operation, slow flashing=warm-up period, 1st flash sequence=**sensor self-test**, 2nd flash sequence=calibration function, 3rd flash sequence=fault condition)
- Fusing:** Automatic resetting thermal overload fuse (reset capabilities to 500 times)
- Wiring:** 2-conductor, 18 - 20 gauge shielded
- Notes:** 1) Never install gas detection sensors in the direct path of moving air, such as exhaust fans, make-up air fans, elevator shafts, ramps, ducts, etc. For duct applications use duct kit.
2) If vandalism is a concern, heavy metal (16 gauge) transmitter guards are available. They are easily installed over the transmitters.

Sensor Specifications:

SENSOR TYPE (GAS)	STD. RANGE	ESTIMATED LIFE SPAN	TRANSMITTER RESOLUTION	OPERATING TEMPERATURE	OPERATING HUMIDITY	MOUNTING HEIGHT	CROSS SENSITIVITY
Carbon Monoxide (CO)	0-200 ppm	5 years "plus"	1 ppm	-20 to +40C	10% to 90% NC	4' to 6' from floor	H2, CO2 high concentrations

* Sensor life span will be reduced with constant background exposure or over exposure (very high concentration) of target gas.