



# LPT-END Carbon Monoxide Transmitter

## Analog transmitters with Electrochemical Nitrogen Dioxide Sensors

### MECHANICAL

|                  |  |
|------------------|--|
| <b>Enclosure</b> | ABS / Polycarbonate                          |
| <b>Weight</b>    | 400 g (14 oz)                                |
| <b>Size</b>      | 5.0" x 4.0" x 1.9" (127 mm x 102 mm x 48 mm) |

### ELECTRICAL

|                          |   |
|--------------------------|---|
| <b>Power Requirement</b> |   |
| <b>2-wire mode</b>       | 16 – 30 VDC   |
| <b>3-wire mode</b>       | 16 – 30 VDC   |
| <b>4-wire mode</b>       | 12 – 30 VAC or 16 – 30 VDC  |
| <b>Current Draw</b>      | Maximum 25 mA   |
| <b>Outputs</b>           | Linear 4 - 20 mA<br>Maximum 216 $\Omega$ load (wiring plus termination resistor) at 16 VDC<br>Maximum 316 $\Omega$ load (wiring plus termination resistor) at 12 VAC                  |
| <b>Wiring</b>            | VDC two or three conductor shielded 18 awg stranded<br>VAC four conductor shielded 18 awg stranded  |
| <b>Fuse</b>              | Automatic resetting thermal   |
| <b>Indicator</b>         | Solid Green: Power ON<br>Flashing Green (50% duty cycle): Warm up<br>Flashing Green (short OFF, long ON): Fault mode<br>LED OFF: No Power or 4-20 mA "Open Loop" (unit won't operate) |

### ENVIRONMENTAL *(sensor dependant)*

|                              |                               |
|------------------------------|-------------------------------|
| <b>Operating Temperature</b> | -20°C to 40°C (-4°F to 104°F) |
| <b>Operating Humidity</b>    | 15 - 90% RH non-condensing    |

### CERTIFICATION

|               |         |
|---------------|---------|
| <b>CE</b>     | Pending |
| <b>C-Tick</b> | Pending |



# LPT-END Carbon Monoxide Transmitter

## SENSOR

|                                  |  |
|----------------------------------|--|
| Type                             | Electrochemical  |
| Range                            | 0 - 10 ppm   |
| Response Time (T <sub>90</sub> ) | < 30 seconds   |
| Operating Temperature            | -20°C to 50°C (-4°F to 122°F)  |
| Operating Humidity               | 15 – 90% RH non-condensing   |
| Operating Pressure               | Atmospheric ± 10%  |
| Repeatability                    | < 2% of signal   |
| Maximum Zero Shift               | ± 0.2 ppm equivalent   |
| Clean Air Output Drift           | < 2% signal loss / year  |
| Expected Life Span               | 2 – 3 years in air (under normal conditions)   |
| Calibration                      | Every 6 months or once a year (depending on application)   |
| Cross Sensitivity                | H <sub>2</sub> S @ 20 ppm = < -40 ppm<br>Cl <sub>2</sub> @ 10 ppm = 100 ppm<br>NO @ 50 ppm = < 0.5 ppm<br>SO <sub>2</sub> @ 20 ppm = < -2.5 ppm<br>CO @ 400 ppm = < 0.1 ppm<br>H <sub>2</sub> @ 400 ppm = < 0.1 ppm<br>C <sub>2</sub> H <sub>4</sub> @ 50 ppm = < 0.1 ppm<br>NH <sub>3</sub> @ 20 ppm = < 0.1 ppm<br>CO <sub>2</sub> @ 5% volume = < 0.1 ppm |