

**Carbon Monoxide Gas Detector
Model TXL-CO****DESCRIPTION**

The Model TXL-CO is a reliable, low-cost carbon monoxide gas detector, housed in an epoxy-coated aluminum enclosure with NEMA 4 rating. Detector outputs include a two-wire loop-powered 4-20 mA analog signal, and an 8-character LCD gas level display. A magnetic, non-intrusive calibration feature and reliable electrochemical sensor round out this well-designed product. The TXL is approved for use in hazardous areas when used with an approved intrinsically-safe zener barrier.

APPLICATION

The TXL-CO is intended for life safety protection in hazardous applications including petrochemical, general industrial, municipal, and commercial facilities. The output signal is compliant with industry standards and can be routed to any standard 4-20 mA analog input receiver or controller. The TXL product family provides extremely low power consumption, and can be installed with or without zener diode barriers depending upon installation area requirements.

FEATURES

- Low-cost
- Easy to install
- Intrinsically-safe
- NEMA 4 aluminum enclosure
- 8-character LCD gas level display
- Magnetic, non-intrusive calibration
- 2-wire, loop-powered 4-20 mA output
- Reliable electrochemical sensor
- 2 year warranty.

**SPECIFICATIONS****MEASUREMENT RANGE—**

0-999 PPM standard (other ranges are field selectable).

TRANSMITTER OUTPUT—

4–20 mA linear current signal.

DISPLAY—

8 character LCD.

ACCURACY—

± 2 PPM or $\pm 10\%$ of applied gas concentration.

LINEARITY—

$\pm < 5\%$.

REPEATABILITY—

$< \pm 3\%$.

Table 1—Cross Sensitivity of CO Sensor

Gas	Level	Reading
Carbon Monoxide	100 ppm	100
Hydrogen Sulfide	25 ppm	0
Sulfur Dioxide	50 ppm	0.5
Nitrogen Dioxide	800 ppm	20
Nitric Oxide	50 ppm	8
Chlorine	2 ppm	0
Hydrogen	100 ppm	0
Ethylene	100 ppm	85
Ethanol	2000 ppm	3
Ammonia	100 ppm	0
Iso-propanol	200 ppm	0
Acetone	1000 ppm	0
Acetylene	40 ppm	80

RESPONSE TIME—
T90 < 20 seconds.

SENSOR CROSS SENSITIVITY—
See Table 1.

TEMPERATURE RANGE—
-15°C to +40°C (+5°F to +104°F).

HUMIDITY RANGE—
15 to 90% (non-condensing).

OPERATING POWER—
24 VDC (12 to 30 VDC). 75 milliwatts maximum.

WIRING—
2-conductor, stranded and shielded.

MAXIMUM CABLE LENGTH—
Up to 4,000 feet using 20 gauge stranded cable.

CONNECTIONS—
Screw terminal.

CALIBRATION—
1-person, non-intrusive magnetic switch.

ENCLOSURE—
NEMA 4, epoxy-coated aluminum enclosure.

SENSOR HOUSING—
Aluminum standard (stainless steel option available).

DIMENSIONS—
4.65" W x 4.5" H x 2.2" D.

SHIPPING WEIGHT—
1 lb (0.5 kg).

WARRANTY—
2 years.

CERTIFICATION—
UL approved when properly installed for:
Class I, Groups A, B, C and D;
Class II, Groups E, F and G;
Class III.
CE and DEMKO approvals.

IS BARRIER—
Voc ≤ Vmax = 30 vdc,
Isc ≤ Imax = 125 ma,
Ca ≥ Ci + C cable,
La ≥ Li + L cable.

Suggested barrier models 9002/13-280/110/00 or 9002/13-252/121/04 manufactured by R. Stahl, Inc.

ORDERING INFORMATION

When ordering, please specify:

Part Number	Description
000518-004	Model TXL-CO Carbon Monoxide Gas Detector, 0-999 PPM Range

REPLACEMENT CO SENSOR CELL

Part Number	Description
000518-104	Carbon monoxide sensor cell, 0-999 PPM range

CALIBRATION KIT

Part Number	Description
000518-204	Model TXL-KIT-CO Kit includes: Two 0.58 liter cylinders, one containing 50 PPM CO cal gas, one containing "zero" clean air, carry case, calibration cup, 3 ft length hose, gauge/regulator, calibration magnet.



Detector Electronics Corporation

6901 West 110th Street • Minneapolis, Minnesota 55438 • Operator (952) 941-5665 or (800) 765-FIRE
Customer Service (952) 946-6491 • Fax (952) 829-8750 • www.detronics.com • E-mail: detronics@detronics.com