



The LPT is an economical, single sensor, analog transmitter for monitoring toxic gases non-hazardous, non-explosion proof rated commercial and light industrial applications. This basic transmitter is designed to be part of a fixed system with a Controller for applications such as car parks, vehicle repair, recreation facilities and oxygen depletion environments. It features a two-wire loop power, three-wire VDC or four-wire VAC power, 4 - 20 mA linear output signal, thermal resetting fuses, temperature compensation, and visual LED indication for power and fault conditions, all in a RoHS compliant package. Comes standard with a water / dust tight, corrosion resistant ABS / polycarbonate enclosure with a hinged, secured door. With the optional splash guard installed, the enclosure is IP54 rated and ideal for use in water spray or wash down applications.

Automated calibration and other maintenance procedures are simple and easily performed in the field. For parking garage applications, our proprietary Calibration Extending Firmware (CEF) takes into account the aging of the sensors so that less frequent calibrations are acceptable in non-critical applications.

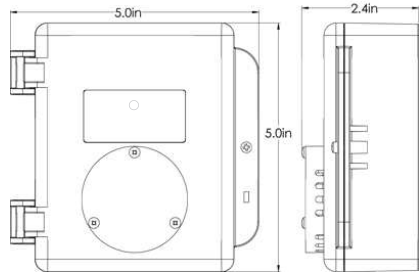
### KEY FEATURES

- » Single sensor
- » Linear 4 - 20 mA output signal
- » 2-wire loop, 3-wire VDC or 4-wire VAC power
- » Standard water / dust tight corrosion resistant enclosure (drip proof); IP54 rated with optional splash guard installed.
- » RoHS compliant package
- » Auto resetting fuses
- » Includes sensor CEF (calibration extending firmware)

### APPLICATIONS

- » Parking Garages/Car Parks
- » Vehicle Repair Shops
- » Manufacturing Plants
- » Maintenance Facilities
- » Commercial Swimming Pools
- » Ice Arenas
- » Food Processing Plants
- » Fisheries/Hatcheries
- » Chemical Storage Rooms
- » ... and many more

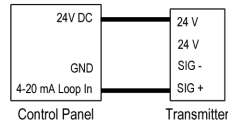
### TECHNICAL DRAWING



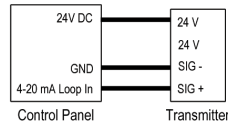
Note: Drawings above are shown with an optional splash guard. Without splash guard, thickness of unit is 53.34 mm (2.1 inches).

### WIRING

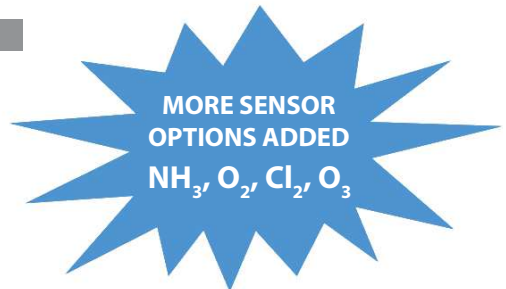
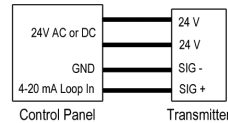
#### 2-Wire Loop



#### 3-Wire VDC



#### 4-Wire VAC





# ANALOG GAS DETECTORS DATASHEET

## LPT Low Power Transmitter

FIXED SYSTEMS

### TECHNICAL SPECIFICATIONS

#### GAS TYPE

Ammonia (NH<sub>3</sub>), Carbon Monoxide (CO), Chlorine (Cl<sub>2</sub>), Nitrogen Dioxide (NO<sub>2</sub>), Oxygen (O<sub>2</sub>), Ozone (O<sub>3</sub>)

#### MECHANICAL

Enclosure ABS / Polycarbonate, IP54 rated with splash guard installed. Copper coated interior to reduce RF interference.

Weight 200 g (7 oz)

Size 127 x 127 x 53 mm  
5.0 x 5.0 x 2.1 inches

#### USER INTERFACE

Indicator LED Single color status LED

#### INPUT / OUTPUT

Output Linear 4 - 20 mA  
Maximum 216 Ω load  
(wiring plus termination resistor) at 16 VDC  
Maximum 316 Ω load  
(wiring plus termination resistor) at 12 VAC

#### ELECTRICAL

##### Power Requirement

2-wire mode 16 - 30 VDC, 1 W, Class 2  
3-wire mode 16 - 30 VDC, 1 W, Class 2  
4-wire mode 12 - 27 VAC, 50-60 Hz, 1 VA, Class 2

Current Draw Typical 25 mA

Wiring VDC 2-conductor shielded 18 awg stranded  
VDC 3-conductor shielded 18 awg stranded  
VAC 4-conductor shielded 18 awg stranded

Fuses Thermal, resetting

#### ENVIRONMENTAL (sensor dependent)

Operating Temperature -20°C to 40°C (-4°F to 104°F)

Humidity 15 - 90% RH non-condensing

#### CERTIFICATION

Conforms to: CSA-C22.2 No. 205-M1983 (R2009)  
UL508 (Edition 17):2007

Conforms to: EMC Directive 2004/108/EC  
EN 50270:2006, Type 1, EN61010

Conforms to: FCC. This device complies with Part 15 of the FCC Rules.

### PRODUCT CODES

#### Internal Electrochemical Sensors

#### Lifespan

<b>LPT-NH3</b>	Ammonia (NH <sub>3</sub> ) sensor (0 - 500 ppm)	2 yrs
<b>LPT-TCO</b>	Carbon Monoxide (CO) sensor (0 - 200 ppm)	6 yrs
<b>LPT-CL2</b>	Chlorine (Cl <sub>2</sub> ) sensor (0 - 5 ppm)	3 yrs
<b>LPT-END</b>	Nitrogen Dioxide (NO <sub>2</sub> ) sensor (0 - 10 ppm)	6 yrs
<b>LPT-O2</b>	Oxygen (O <sub>2</sub> ) sensor (0 - 25% volume)	3 yrs
<b>LPT-O3</b>	Ozone (O <sub>3</sub> ) sensor (0 - 2 ppm)	2 yrs

#### OPTIONS (Factory installed, add at the end of the Product Code above)

<b>S</b>	Splash Guard for non sticky gases
<b>SN</b>	Splash Guard for sticky gases (Cl <sub>2</sub> , NO <sub>2</sub> , O <sub>3</sub> )

#### ACCESSORIES

<b>CDA</b>	Calibration Display Adapter tool for LPT
<b>CET-715A-CK1</b>	Calibration Kit for 17, 34, 58, 74, 100 L cylinders, 0.5 LPM flow regulator & adapter to fit 17 L cylinder
<b>CET-SGC</b>	Calibration clip for splash guard
<b>SCS-8000-RSG</b>	Metal protective guard, small, 16 gauge, galvanized metal guards for transmitters
<b>SCS-8000-WSG</b>	Small galvanized metal, 16 gauge protective guard with splash cover for transmitters with sticky gas sensors

