



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.

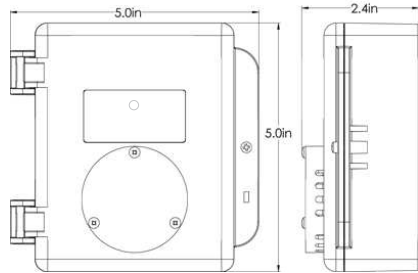
KEY FEATURES

- » 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
- » Chemical Storage Rooms
- » ... and many more

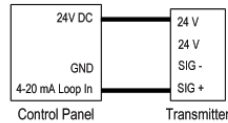
TECHNICAL DRAWING



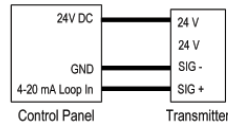
Note: Drawings above are shown with an optional splash guard. Without splash guard, thickness of unit is 53.34 mm (2.1 inches).

WIRING

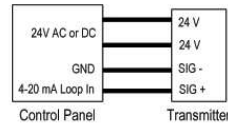
2-Wire Loop



3-Wire VDC



4-Wire VAC



TECHNICAL SPECIFICATIONS

GAS TYPE

Ammonia (NH₃), Carbon Monoxide (CO), Chlorine (Cl₂), Hydrogen Sulphide (H₂S), Nitrogen Dioxide (NO₂), Oxygen (O₂), Sulphur Dioxide (SO₂)

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

LPT-NH3 Ammonia (NH₃) sensor (0 - 500 ppm) ~2 yrs

LPT-TCO Carbon Monoxide (CO) sensor (0 - 200 ppm) ~6 yrs

LPT-CL2 Chlorine (Cl₂) sensor (0 - 5 ppm) ~3 yrs

LPT-H2S Hydrogen Sulphide (H₂S) sensor (0 - 50 ppm) ~2 yrs

LPT-END Nitrogen Dioxide (NO₂) sensor (0 - 10 ppm) ~2 yrs

LPT-O2 Oxygen (O₂) sensor (0 - 25% volume) ~3 yrs

LPT-SO2 Sulphur Dioxide (SO₂) sensor (0 - 20 ppm) ~2yrs

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

S Splash Guard for non sticky gases

SN Splash Guard for sticky gases (Cl₂)

ACCESSORIES

CDA Calibration Display Adapter tool for LPT

CET-715A-CK1 Calibration Kit for 17, 34, 58, 74, 100 L cylinders, 0.5 LPM flow regulator & adapter to fit 17 L cylinder

CET-5GC Calibration clip for splash guard

SCS-8000-RSG Metal protective guard, small, 16 gauge, galvanized metal guards for transmitters

SCS-8000-WSG Small galvanized metal, 16 gauge protective guard with splash cover for transmitters with sticky gas sensors

