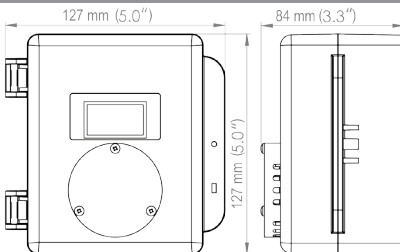


LPT-P Digital Car Park Transmitter



TECHNICAL DRAWING



Note: Drawings above are shown with the optional splash guard. Without the splash guard, the thickness of the unit is 71 mm (2.8 inches).

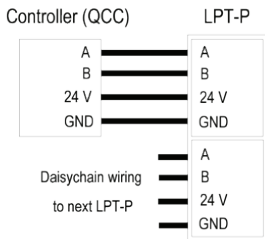
The LPT-P is an economical, three channel, digital transmitter that is designed to be part of a gas detection system for enclosed parking garage/car park and vehicle repair shop applications. It can be configured with a single and/or dual internal electrochemical Carbon monoxide (CO) and/or Nitrogen dioxide (NO₂) sensor and/or one catalytic combustible ESH-A Remote Sensor. The LCD display provides at-a-glance gas readings for each channel along with alarm and communication status. Navigating the menu can be done unobtrusively with a magnetic wand or by using the internal programming buttons.

The LPT-P comes in a standard 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.

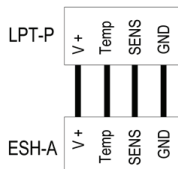
The LPT-P is not a standalone gas detection device, it operates on a local area network (LAN) using Modbus® RS-485 RTU serial communications with a Controller, a control panel, Direct Digital Control system (DDC) or a Building Automation System (BAS). The LPT-P does not have an internal alarm or relay.

WIRING

4-Wire 24 VDC



ESH-A Remote Sensor



KEY FEATURES

- » 1, 2 or 3 channel operation
- » Modbus® RS-485 RTU digital output signal
- » LCD display (with user selectable function)
- » 4-conductor shielded network wiring (daisy-chain)
- » 24 volt DC power
- » Optional heater for cold environment applications
- » Standard water / dust tight, corrosion resistant enclosure (drip proof); IP54 rated with optional splash guard installed.
- » Unobtrusive calibration and menu navigation using a magnetic wand
- » RoHS compliant circuit board
- » Auto resetting fuses

APPLICATIONS

- » Parking Garages / Car Parks
- » Vehicle Repair Shops
- » Electric Car Charging Stations
- » Battery Charging Rooms
- » ...an many more

TECHNICAL SPECIFICATIONS

GAS TYPE	
Electrochemical (internal)	Carbon Monoxide (CO) and/or Nitrogen Dioxide (NO ₂)
Combustible (catalytic) (ESH-A Remote Sensor)	Hydrogen (H ₂), Methane (CH ₄), or Propane (C ₃ H ₈)
MECHANICAL	
Enclosure	ABS / Polycarbonate, IP54 rated with splash guard installed. Copper coated interior to reduce RF interference.
Weight	400 g (14 oz)

LPT-P Digital Car Park Transmitter

TECHNICAL SPECIFICATIONS CONTINUED

Size	127 mm x 127 mm x 71 mm (5.0 x 5.0 x 2.8 inches)
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USER INTERFACE

Display	Graphic LCD, white border
Magnetic Sensors	Using a magnetic wand, initiate calibration and menu options without opening the enclosure

INPUT / OUTPUT

Output	Modbus® RS-485 RTU (standard)
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ELECTRICAL

Power Requirement	16-30 VDC, 3 W, Class 2
Wiring	16 gauge, 4-conductor shielded network wiring (daisy-chain)
Fuses	Thermal, resetting

ENVIRONMENTAL

Operating Temperature	-20°C to 40°C (-4°F to 104°F), lower temperature option available
Humidity	15 - 90% RH non-condensing

PRODUCT CODES

*Type A: Single Channel (One Internal Electrochemical Sensor)
Lifespan*

LPT-P-TCO	Carbon Monoxide (CO) sensor (0 - 200 ppm)	6 yrs
LPT-P-NO2B	Nitrogen Dioxide (NO ₂) sensor (0 - 10 ppm)	6 yrs

Type B: Single Channel (No Internal Sensor, ESH-A Remote Catalytic Sensor only)

LPT-P-R + ESH-A-CH2	Hydrogen (H ₂) sensor (0 - 50% LEL)	5 yrs
LPT-P-R + ESH-A-CCH4	Methane (CH ₄) sensor (0 - 50% LEL)	5 yrs
LPT-P-R + ESH-A-CC3H8	Propane (C ₃ H ₈) sensor (0 - 50% LEL)	5 yrs

Type D: Dual Channel (One Internal Electrochemical Sensor + ESH-A Remote Catalytic Sensor)

LPT-P-TCO-R + ESH-A-CH2	CO sensor (0 - 200 ppm) & Hydrogen (H ₂) sensor (0 - 50% LEL)	6+ yrs 5 yrs
LPT-P-TCO-R + ESH-A-CCH4	CO sensor (0 - 200 ppm) & Methane (CH ₄) sensor (0 - 50% LEL)	6+ yrs 5 yrs

PRODUCT CODES CONTINUED

LPT-P-TCO-R + ESH-A-CC3H8	CO sensor (0 - 200 ppm) & Propane (C ₃ H ₈) sensor (0 - 50% LEL)	6+ yrs 5 yrs
LPT-P-NO2B-R + ESH-A-CH2	NO ₂ sensor (0 - 10 ppm) & Hydrogen (H ₂) sensor (0 - 50% LEL)	6+ yrs 5 yrs
LPT-P-NO2B-R + ESH-A-CCH4	NO ₂ sensor (0 - 10 ppm) & Methane (CH ₄) sensor (0 - 50% LEL)	6+ yrs 5 yrs
LPT-P-NO2B-R + ESH-A-CC3H8	NO ₂ sensor (0 - 10 ppm) & Propane (C ₃ H ₈) sensor (0 - 50% LEL)	6+ yrs 5 yrs

Type E: Dual Channel (Two Internal Electrochemical Sensors)

LPT-P-TCO-NO2B	CO sensor (0 - 200 ppm) & NO ₂ sensor (0 - 10 ppm)	6+ yrs 5-6 yrs
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Type F: Three Channel (Internal CO and NO₂ Sensors + One ESH-A Remote Sensor)

LPT-P-TCO- NO2B-R + ESH-A-CH2	Carbon Monoxide (CO) sensor (0 - 200 ppm) Nitrogen Dioxide (NO ₂) sensor (0 - 10 ppm) Hydrogen (H ₂) sensor (0 - 50% LEL)
LPT-P-TCO- NO2B-R + ESH-A-CCH4	Carbon Monoxide (CO) sensor (0 - 200 ppm) Nitrogen Dioxide (NO ₂) sensor (0 - 10 ppm) Methane (CH ₄) sensor (0 - 50% LEL)
LPT-P-TCO- NO2B-R + ESH-A-CC3H8	Carbon Monoxide (CO) sensor (0 - 200 ppm) Nitrogen Dioxide (NO ₂) sensor (0 - 10 ppm) Propane (C ₃ H ₈) sensor (0 - 50% LEL)

OPTIONS (Factory installed) Add at the end of the "Part Number" above.

H	Internal heater for cold environment applications down to -40°C / 40°F
S	Splash guard (may be added to the LPT-P and/or the ESH-A Remote Sensor, as required)

ACCESSORIES

CEFT-715A-CK1	Calibration Kit for 17, 34, 58, 74, 103 L cylinders, 0.5 LPM flow regulator & adapter to fit 17 L cylinder
SCS-8000-RSG	Metal protective guard, small, 16 gauge, galvanized metal guards for transmitters and/or ESH-A Remote Sensor, as required.

CERTIFICATION

Conforms to: CSA-C22.2 No. 205-12 / 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.

