Critical Environment Technologies™

FIXED SYSTEMS

DIGITAL GAS DETECTORS DATASHEET

LPT-B BACnet® Transmitter



The LPT-B is a full featured, 3 channel, digital transmitter for use in vehicle exhaust applications like enclosed parking facilities, bus barns and vehicle repair shops. It is available with one internal carbon monoxide sensor plus one internal nitrogen dioxide sensor and a remote combustible gas or TVOC sensor.

It offers a BACnet® MS/TP output signal for communicating with a Controller or Building Automation System, an audible internal alarm, one SPDT dry contact relay, LCD display with user selectable functions, temperature compensation and thermal resetting fuses all in a RoHS compliant package.

The LPT-B comes in a standard water / dust tight, corrosion resistant ABS / polycarbonate enclosure with a hinged, secured door. It is IP54 rated with the optional splash guard installed which provides protection in water spray or wash down applications.

The LPT-B is not compatible with CETCI's Controllers. It is intended to be used as a standalone system or integrated into an existing BACnet® network.

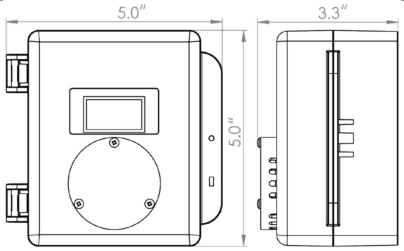
KEY FEATURES

» 3 channel operation
» BACnet® MS/TP digital output signal
» One SPDT dry contact relay
» LCD display (with user selectable function)
» Internal audible alarm
» Standard water / dust tight, corrosion resistant enclosure (drip proof); IP54 rated with optional splash guard installed.
» RoHS compliant circuit board
» Thermal resetting fuses

APPLICATIONS

» Parking Garages/Car Parks
» Vehicle Repair Shops
» Bus Barns
» Distribution Warehouses
» ... and many more

TECHNICAL DRAWING



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

TECHNICAL SPECIFICATIONS

MECHANICAL

Enclosure	ABS / Polycarbonate, IP54 rated with splash guard installed. Copper coated interior to reduce RF interference.
Weight	400 g (14 oz)
Size	127 x 127 x 71 mm / 5.0 x 5.0 x 2.8 inches

USER INTERFACE

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

INPUT / OUTPUT

Input	4 - 20 mA analog, for ESH-A Remote Sensor
Output	BACnet® MS/TP RS-485
Relay	1 SPDT dry contact, rated at 30 volts, 2 amps max
Audible Alarm	Standard internal buzzer, enable/disable, rated 90 dB @ 10 cm / 4 in

ELECTRICAL

Power Requirement	16-30 VDC, 3 W, Class 2 12-27 VAC, 50-60 Hz, 3 VA, Class 2
Current Draw	55 mA (buzzer & relay energized, 2 sensors)
Wiring 4-wire VDC/VAC	BACnet® MS/TP (version 1 rev 14) RS-485, 16 gauge, 4-conductor stranded shielded network wiring (daisy chain)
Fuses	Thermal, resetting

BACnet® is a registered trademark of American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE)

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TECHNICAL SPECIFICATIONS

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

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.
Listed by BTL

PRODUCT CODES

LPT-B-TCO-N02B-R	Carbon Monoxide (CO) sensor (0 - 200 ppm) & Nitrogen Dioxide (NO_2) sensor (0 - 10 ppm) & **Add a Remote Sensor**	~6 yrs

REMOTE SENSORS		
Catalytic		*Lifespan*
ESH-A-CH2-100	Hydrogen (H_2) sensor (0 - 100% LEL)	5 yrs
ESH-A-CCH4-100	Methane (CH_4) sensor (0 - 100% LEL)	5 yrs
ESH-A-CC3H8-100	Propane (C_3H_8) sensor (0 - 100% LEL)	5 yrs
TVOC PIDs		
ESH-A-SPL	TVOC PID sensor (0 - 30 ppm)	
ESH-A-SPH	TVOC PID sensor (0 - 300 ppm)	**
Infrared		
ESH-A-JET	Propane (C_3H_8) sensor (0 - 100% LEL)	8 yrs

OPTIONS *(Factory installed) Add at the end of the "Part Number" above.*	
L2	Enclosure mounted (on side), strobe with audible, 40 mm / 2 in dia, 80 flashes per min, siren volume 85 dB, drip proof
S	Splash Guard

PRODUCT CODES

ACCESSORIES	
CET-SGC	Calibration clip for splash guard
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-MW	Magnetic wand for non-intrusive calibration
SCS-8000-RSG	Small galvanized metal, 16 gauge protective guard for transmitters and/or ESH-A Remote Transmitter, as required.
SCS-8000-WSG	Small galvanized metal, 16 gauge protective guard with splash cover for transmitters with sticky gases

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