

## Duct CO<sub>2</sub> and Temperature Transducer LX-CDTE-D

The Duct CO<sub>2</sub> and Temperature Transducer LX-CDTE-D is an accurate carbon dioxide and Temperature transducer for demanding HVAC applications.

### Details

The CO<sub>2</sub> and temperature sensing elements sense carbon dioxide concentration along with the temperature and transmit it to any compatible controller or automation system. The product provides unsurpassed accuracy and reliability.

The robust ABS casing makes LX-CDTE-D suitable for a variety of environments.

The device can be equipped with a small LCD display (optional) for measurement reading.

### Order Codes

LX-CDTE-D

LX-CDTE-D-LCD (optional, with display)

- Monitors CO<sub>2</sub> over range of 0-2000 PPM (factory default)
- Field adjustable range from 0-1500 PPM up to 10,000 PPM without re-calibration
- NDIR single beam with patented self calibration algorithm
- Guaranteed 5 year calibration interval
- Powered by either AC or DC source with no change to circuit required
- Voltage and current output signals
- Easy to calibrate in the field



### Technical Data

Range:	0-2000 ppm standard, programmable from 1500 up to 10,000 ppm
Standard Accuracy:	±50 PPM or +3% of reading @22 C(72 F) when compared to certified calibration gas
Sensing Element:	Non-Dispersive Infrared Detector (NDIR)
Temperature Sensing Element:	1000 Ω Platinum, IEC 751, 385 Alpha, thin film
Operating Conditions:	0-50°C, 0-95% RH non-condensing
Temperature Dependence:	0.2% FS per °C
Stability:	0.2% FS per °C < 2 % FS over life of sensor (15 years typical)
Output Signal:	4-20 mA active (sourcing) ) and 0-10VDC, Jumper selectable
Sensor Coverage Area	100 m <sup>2</sup> (1000 ft <sup>2</sup> ) typical
Output Drive Capability:	Current - 550 Ohm max Voltage - 10 kOhm min
Pressure Dependence:	0.13% of reading per mmHg
Altitude Correction:	Programmable from 0-5000 ft in 500 ft increments
Response Time:	2 minutes for 90% step change
Warm-up Time:	2 minutes
Power Supply:	20-30 VAC/DC (non-isolated half-wave rectified)
Consumption:	140mA@24V maximum
Input Voltage Effect:	Negligible over specified operating range
Protection Circuitry:	Reverse voltage protected and output limited
LCD Display (optional):	LCD for displaying PPM level (required for field programming), 1 ppm resolution 28mm (W) x13mm (H) alpha-numeric , 2 x 8 characters Via internal push-buttons and jumper
Programming and Selection:	Via internal push-buttons and jumper
Wiring Connections:	Screw terminal block (14 to 22 AWG)
Dimensions:	Duct ABS – 124mm (W) x 183mm (H) x43mm (D)
Manufacturing Process:	ISO9001