LONIX AUTOMATION

CO_2 and Temperature Detector LX-CDTE-R-AC

The LX-CDTE-R-AC is an accurate carbon dioxide and temperature detector for clean indoor environments. It enables the control of indoor air quality as well as room temperature.

- Monitors CO2 over range of 0-2000 PPM
- Highly accurate NDIR sensor combined with state-of-the-art linearization and temperature compensated circuitry
- Voltage and current output signals
- Available with optional LCD
- Easy to calibrate in the field

Details

The CO2 and temperature sensor uses highly accurate non-dispersive infrared sensor combined with state-of-the-art linearization and temperature compensated circuitry to monitor carbon dioxide levels, within a range of 0 – 2000 parts per million. The output is a linear current or voltage signal. Temperature sensor type is Pt1000 type resistance temperature detector for fast and accurate measurement.

The output signal can be selected between a 4 – 20 mA current signal and a 0 – 10 V voltage signal with a jumper.

The product is also available with an optional LCD display.

Order Codes

LX-CDTE-R-AC

LX-CDTE-R-AC-LCD (with display)

Technical Data

Output Signal (Temperature):	Pt1000 resistance
Output Signal (CO2):	4-20 mA or 0 – 10 Vdc jumper selectable
Measured Range:	0 – 2000 ppm
Accuracy:	±30 ppm + 3% of reading @ 22 ℃
Sensor Type (CO2):	Non-Dispersive Infrared (NDIR), diffusion sampling
Sensor Coverage Area:	100 m2 typical
Operating Voltage:	20 - 28 VAC/DC (non-isolated half-wave rectified)
Current Consumption:	100 mA Max @ 24VDC
	185 mA Max @ 24VDC (with options)
Temperature Dependence:	0.2% FS per ℃
Stability:	<2% FS over life of sensor
Pressure Dependence:	0.13% of reading per mm Hg
Response Time:	< 2 min for 90% step change typical
Sensor Type (Temperature):	Pt1000 type resistance temperature detector
Operating Temperature:	0 to 50℃, 0-95%RH non-condensing
Enclosure:	White ABS, IP30, 84mm (W) x 117mm (H) x 29mm (D)
Wiring Connections:	Screw Terminals
Manufacturing Process:	ISO9001

LONIX LTD
Teollisuuskatu 33, FI-00510 Helsinki, Finland
Tel: +358 9 349 9853, Fax: +358 9 3499863