



Carbon Dioxide/RH/Temperature Transmitter

NDIR CO₂ Sensor, Universal CO₂/RH Outputs, Optional Relay

Models Select Chart

EXAMPLE	CDTR	2	W	4	0	4	LCD	Series CDTR-2W404-LCD, Carbon Dioxide/RH/Temperature Transmitter, gas concentration range 2000 ppm, wall mount, carbon dioxide output 0-5 VDC/0-10VDC/4-20mA, RH output 0-5 VDC/0-10 VDC/4-20 mA, LCD display
SERIES	CDTR							Carbon Dioxide/RH/Temperature Transmitter
GAS CONCENTRATION RANGE		2 5						2000 ppm 5000 ppm
MOUNTING CONFIGURATION			W D E N					Wall Mount Duct Mount European Wall Mount North American Wall Mount
CARBON DIOXIDE OUTPUT				4				0-5 VDC/0-10 VDC/4-20mA
TEMPERATURE OUTPUT					0 4 A B C D E F			NONE 0-5 VDC/0-10 VDC/4-20 mA 10K OHM Type 3 NTC Thermistor 10K OHM Type 2 NTC Thermistor 3K OHM NTC Thermistor PT100 OHM RTD PT1000 OHM RTD 20K OHM NTC Thermistor
RH OUTPUT						4		0-5 VDC/0-10 VDC/4-20 mA
OPTIONS							CE COC FC LCD NBC RLY	CE Approval (Wall Mount Only) Certificate of Calibration Factory Calibration Certificate LCD Display No Buttons Relay Output

Accessories

Model	Description
A-449	Remote display with mini USB display.
GCK-200CO-2000CO2	Gas Calibration Kit (GROUND SHIPMENTS ONLY)
A-CDT-KIT	Accessory kit including terminal block and power supply.
A-449A	Remote display with bush buttons and mini USB. (Necessary for models with –NBC option)

Specifications:-

Range	:	CO ₂ : 0 to 2000 or 5000 PPM CO ₂ (depending on model); Relative Humidity: 0 to 100% RH; Temperature: 32 to 122°F (0 to 50°C).
Accuracy	:	±40 ppm + 3% of reading (CO ₂); ±2% (RH).
Temperature Dependence	:	±8 ppm/ °C at 1100 ppm.
Non-Linearity	:	16 ppm.
Pressure Dependence	:	0.13% of reading per mm of Hg.
Response Time	:	2 min. for 99% step change.
Temperature Limits	:	32 to 122°F (0 to 50°C).
Duct Air Velocity Range	:	0-4000 FPM (20.32 m/s).
Humidity Limits	:	10 to 95% RH (non-condensing).
Power Requirements	:	16 to 35 VDC / 19 to 28 VAC.
Power Consumption	:	Average: 2 watts; Peak: 3.75 watts.
Sensor	:	Single-beam, dual-wavelength NDIR.
Output	:	Current: 4 to 20 mA (max 500 Ω); Voltage: 0 to 5 VDC or 0 to 10 VDC (min 500 Ω); Relay: SPST NO 2A @ 30 VDC; RTD or thermistor per r-t curves (depending on model).
Weight	:	5.6 oz (158.8 g).
Enclosure Rating	:	Duct mount: NEMA 4X (IP66) for housing only; Wall mount: IP20.
Agency Approvals	:	CE.