

CARBON DIOXIDE TRANSMITTERS

WALL MOUNTED



**TOUCHSCREEN
DISPLAY FOR EASY
ADJUSTMENT**

CDT2000

CDT2000 combines CO₂ concentration, temperature and optional relative humidity measurements into one easy-to-use device with a touchscreen display. It offers easy installation and adjustment, several different model options and various output signals that are configurable separately for each measurement parameter. CDT2000 utilizes the industry standard NDIR measurement principle with self-calibrating ABC-logic™ for CO₂ measurement. CDT2000-DC is a dual channel model with a measuring channel and a reference channel that makes a continuous comparison and the necessary adjustment accordingly. CDT2000-DC is also suitable for buildings that are continuously occupied.

USAGE & APPLICATIONS

CDT2000 wall mount model is used to monitor and control CO₂ and humidity levels in offices, public spaces, meeting rooms and classrooms. CDT2000-DC series devices can also be used in applications where there is a constant source of carbon dioxide present (for example hospitals and greenhouses).

TECHNICAL DETAILS

Accuracy:	CO ₂ : ±40 ppm + 2 % of reading, DC model: 75 ppm or 10 % of reading (whichever is greater) Temperature: <0.5 °C Relative humidity: ±2...3 % rH at 0...50 °C and 10...90 % rH Total error band includes accuracy, hysteresis and temperature effect over 5...50 °C and 10-90 % rH
Measurement elements:	Pt1000 temperature sensor, Non Dispersive Infrared (NDIR) CO ₂ sensor, thermoset polymer capacitive sensing element for humidity
Measuring units:	ppm, °C, % rH
Calibration:	Automatic self-calibration, ABC Logic™ or continuous comparison (DC)
Supply voltage:	24 VDC/VAC ±10 %
Current consumption:	max 90 mA (at 24 V) + 10 mA for each voltage output or 20 mA for each current output
Output signal 1:	0/2...10 V (linear to CO ₂), L min 1 kΩ or 4...20 mA (linear to CO ₂), L max 500 Ω
Output signal 2:	0/2...10 V (linear to rH), L min 1 kΩ or 4...20 mA (linear to rH), L max 500 Ω
Output signal 3:	0/2...10 V (linear to Temp), L min 1k Ω or 4...20 mA (linear to Temp), L max 500 Ω
Optional relay output:	Potential free SPDT 250 VAC, 6 A / 30 VDC, 6 A with adjustable switching point and hysteresis
Operating temperature:	0...+50 °C
Protection standard:	IP20

CDT

Example:	Product series
CDT2000-1R-D	CDT2000 Carbon dioxide transmitter, analog outputs
	CDT-MOD-2000 Carbon dioxide transmitter, Modbus communication
	Calibration
	ABC logic™, Automatic Background Calibration
	-DC Dual channel, for continuously occupied space
	Mounting
	Wall mount
	Relay (only for wall mount model)
	-1R With relay
	Without relay
	Relative humidity sensor (only for wall mount model)
	-rH With relative humidity sensor
	Without relative humidity sensor
	Display
	-D With display
	Without display
Model	CDT2000 -1R -D

**CDT2000-DC IS ALSO SUITABLE FOR BUILDINGS THAT
ARE CONTINUOUSLY OCCUPIED**