



Applications & Features

- CDT series carbon dioxide (CO₂) & temperature transmitters are designed for monitoring & controlling indoor air quality and temperature
- CDTW is suitable for wall mount and CDTD is suitable for duct mount
- High performance NDIR digital sensor and circuit, ensure precise measurement and temperature compensation
- Multiple optional RTD or thermistor sensors, compatible with a variety of control systems
- Stable, reliable and fast response
- 15 years of CO₂ sensor life without maintenance
- All electrical terminals are on the inside bottom, avoid any possible destroy to PCB when wiring
- Digital technology applied, multiple outputs optional, over voltage and reverse polarity protection, high reliability and anti-interference capability
- Large LCD with unit indicator(CDTW), display carbon dioxide (CO₂) and temperature alternatively (no temperature display for RTD or thermistor models)

Specifications

Carbon dioxide (CO₂)

Sensor: NDIR sensor, with ABC algorithm (Automatic Baseline Correction)

Sampling Method: diffusion

Accuracy: see models

Response time: < 10s (30cc/min, low airflow)

Drift: < ±10ppm/year

Range: 0~2000ppm(measure range 400~2000ppm)

Output: 4~20mA, 0~10V, RS485/Modbus

Temperature

Sensor: Digital, RTD or thermistor, see models

Range: 0~50°C

Accuracy: typical ±0.5°C@15-30°C, see models

Output: 4~20mA, 0~10V, RS485/Modbus or RTD/thermister

Power supply: 15~28VAC/15-36VDC

Load resistance: ≤500Ω (Current output), ≥2kΩ (Voltage output)

Display: Optional LCD Display (CDTW)

Display resolution: 1ppm, 0.1°C

Working environment: 0~50°C, 0~95%RH(Non-cond.)

Storage temperature: -20~80°C

Housing material: fireproof ABS

Protection: IP30 (CDTW), IP65 (CDTD)

Approval: CE

Models

Model	CDTW	CDTD				Wall mount CO ₂ / Temp. Transmitter
						Duct mount CO ₂ / Temp. Transmitter
CO₂ Accuracy		0				50 ppm + 5% reading
		1				50 ppm + 3% reading
CO₂ Output			1			4~20mA / 0~10VDC
			B			4~20mA / 0~10VDC , RS485/Modbus
Temperature Output				1		4~20mA / 0~10VDC
				3		PT1000
				4		PT100
				5		NTC20K
				6		Ni1000
				7		NTC10K-II
				9		NTC10K-III
				A		NTC10K-A
Display (CDTW)					0	N/A
					1	LCD