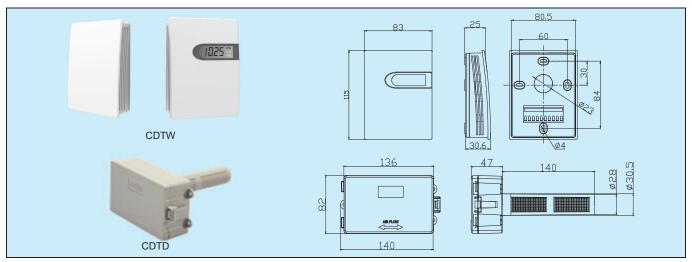
## **CDT Carbon Dioxide (CO<sub>2</sub>) / Temperature Transmitter**





## **Applications & Features**

- CDT series carbon dioxide (CO<sub>2</sub>) & 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 CO<sub>2</sub> 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 (CO<sub>2</sub>) and temperature alternatively (no temperature display for RTD or thermistor models)

## **Specifications**

Carbon dioxide (CO<sub>2</sub>)

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:  $15\sim28$ VAC/15-36VDC Load resistance:  $\leq500\Omega$  (Current output),  $\geq2k\Omega$  (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					Wall mount CO <sub>2</sub> / Temp. Transmitter
	CDTD					Duct mount CO <sub>2</sub> / Temp. Transmitter
CO₂ Accuracy		0				50 ppm + 5% reading
		1				50 ppm + 3% reading
CO <sub>2</sub> Output			1			4~20mA / 0~10VDC
			В			4~20mA / 0~10VDC , RS485/Modbus
				1		4~20mA / 0~10VDC
				3		PT1000
				4		PT100
Temperature				5		NTC20K
Output				6		Ni1000
				7		NTC10K-II
				9		NTC10K-III
				Α		NTC10K-A
				В		4~20mA / 0~10VDC , RS485/Modbus
Display					0	N/A
(CDTW)					1	LCD

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