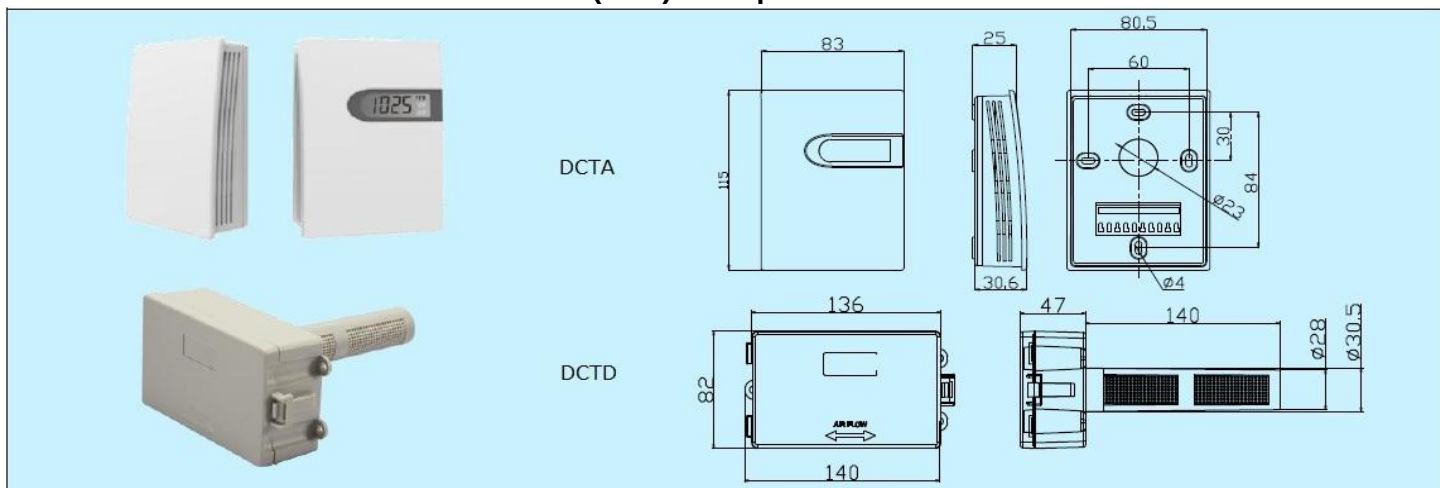




A mais completa em soluções para HVAC e Automação.

RSA-DCTA / RSA-DCTD - Carbon Dioxide (CO₂) / Temperature Transmitter



Applications & Features

- RSA-DCT series carbon dioxide (CO₂) & temperature transmitters are designed for monitoring & controlling indoor air quality and temperature.
- RSA-DCTA is suitable for wall mount and RSA-DCTD 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(RSA-DCTA)
- Digital technology applied, multiple outputs optional, over voltage and reverse polarity protection, high reliability and anti-interference capability
- Large LCD with unit indicator(RSA-DCTA), 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*

Sampling Method: diffusion

Accuracy: (40+3%MV) ppm

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: see accuracy table

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

Power supply: 16~28VAC/16~35VDC

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

Display: Optional LCD Display (RSA-DCTA)

Display resolution: 1ppm, 0.1°C

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

Temp. compensation: 0~50°C

Storage temperature: -20~60°C

Housing material: ABS+PC (RSA-DCTA), fireproof ABS (RSA-DCTD)

Protection: IP30 (RSA-DCTA), IP65 (RSA-DCTD)

Weight: 175g (RSA-DCTA), 416g (RSA-DCTD)

Approval: CE

*ABC algorithm: Automatic Baseline Correction, it constantly keeps track of the sensor's lowest reading over a few days interval and slowly corrects for any long term drift detected as compared to the expected fresh air value of 400 ppm CO₂.

Models

Model	RSA-DCTA		Wall mount CO ₂ / Temp. Transmitter
	RSA-DCTD		Duct mount CO ₂ / Temp. Transmitter
CO ₂ Output		1	4~20mA/0~10VDC
		C	RS485/Modbus
Temp. Output		1	4~20mA / 0~10VDC
		3	PT1000, ±0.2°C @25°C
		4	PT100, ±0.2°C @25°C
		5	NTC20K, ±0.4°C @25°C
		6	Ni1000, ±0.4°C @25°C
		7	NTC10K-II, ±0.4°C @25°C
		9	NTC10K-III, ±0.4°C @25°C
		A	NTC10K-A, ±0.4°C @25°C
		C	RS485/Modbus
Display (RSA-DCTA)		0	N/A LCD
		1	LCD

1. All products are factory set to 4~20mA as output default, and can be set to 0~10V by jumper on the PCB.
2. See resistance table on page 1 of this catalog.

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Accuracy table for temperature

Outputs	RSA-DCTA	RSA-DCTD
0~10V DC	<±0.5°C@10~40°C	<±0.5°C@10~40°C
4~20mA	<±0.8°C@10~40°C	<±0.5°C@10~40°C
RS485/Modbus	<±0.5°C@10~40°C	<±0.5°C@10~40°C
RTD/ thermistor	See models	See models

When select RTD/ thermistor, RSA-DCTA total error will be 0.5°C more than the accuracy in the models.

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