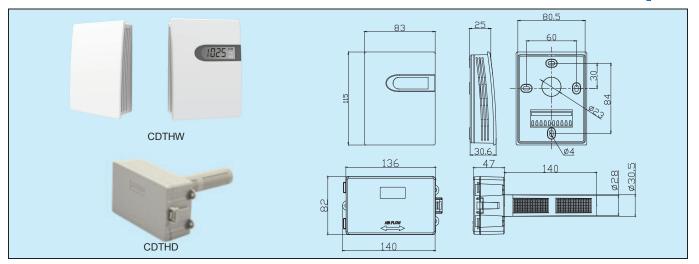
CDTH Carbon Dioxide (CO₂) / Temperature/ Humidity Transmitter



Applications & Features

- CDTH series carbon dioxide ($\rm CO_2$) / temperature / humidity transmitters are designed for monitoring & controlling indoor air guality, temperature and humidity in one unit
- CDTHW is suitable for wall mount and CDTHD 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
- Light and state of art housing, easy installation Large LCD with unit indicator(CDTHW), display carbon dioxide (CO₂), temperature and humidity alternatively

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

Models

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

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LCD

Range: 0~2000ppm(measure range 400~2000ppm) Output: 4~20mA, 0~10V, RS485/Modbus

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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

Relative Humidity

Sensor: Digital polymer Range: 0~100%RH Accuracy: 3%RH (25°C, 20~80%RH) Hvsteresis: <±1%RH Response time: <10s (25°C, in slow air) Drift: <±0.5%RH/year Output: 4~20mA, 0~10V, RS485/Modbus

Power supply: 15~28VAC/15-36VDC **Load resistance:** ≤500Ω (Current output), $\geq 2k\Omega$ (Voltage output) Display: Optional LCD Display (CDTHW) Display resolution: 1ppm, 0.1°C, 0.1%RH Working environment: 0~50°C, 0~95%RH(Non-cond.) Storage temperature: -20~80°Ć Housing material: fireproof ABS Protection: IP30 (CDTHW), IP65 (CDTHD) Approval: CE