



Applications & Features

- CD-N series carbon dioxide transmitters/controllers are designed for monitoring & controlling indoor air quality
- CDWN is suitable for wall mount and CDDN is suitable for duct mount
- High performance NDIR digital sensor and circuit, ensure precise measurement and temperature compensation
- Stable, reliable and fast response
- 15 years sensor life without maintenance
- 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
- Multiple outputs selection, optional relay output to actuate the alarm or control function
- LCD & function keys can set various parameters, calibrate and adjust output, so the product can be a stand alone controller(for CDWC)

Specifications for CDWN&CDDN

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 or others (0~5000ppm)
Output: 4~20mA, 0~10V, RS485/Modbus
Load resistance: ≤500Ω (Current output), ≥2kΩ (Voltage output)
Power supply: 15~28VAC/15-36VDC
Display: Optional LCD Display
Display resolution: 1ppm
Working environment: 0~50°C, 0~95%RH(Non-cond.)
Storage temperature: -20~80°C
Housing material: fireproof ABS
Protection: IP30 (CDWN), IP65 (CDDN)
Approval: CE

Models for CDWN&CDDN

Model	CDWN		Wall mount CO ₂ Transmitter
	CDDN		Duct mount CO ₂ Transmitter
Accuracy		0 1	50 ppm + 5% reading 50 ppm + 3% reading
Output		1 B	4~20mA / 0~10VDC 4~20mA / 0~10VDC RS485/Modbus
Display (CDWN)		0 1	N/A LCD

Specifications for CDWC

Sensor: NDIR sensor, with ABC algorithm (Automatic Baseline Correction)
Sampling Method: diffusion
Accuracy: 50 ppm + 5% reading
Response time: < 10s (30cc/min, low airflow)
Drift: < ±10ppm/year
Range: 0~2000 ppm(measure range 400~2000ppm)
Output: 2× SPST, 3A-30VDC/250VAC
Communication: optional RS485/Modbus
Power supply: 15~28VAC/15-36VDC
Display and keys: with LCD Display and 3 touch keys, see more details on LCD & Keys operation
Display resolution: 1ppm
Working environment: 0~50°C, 0~95%RH(Non-cond.)
Storage temperature: -20~80°C
Housing material: fireproof ABS
Protection: IP30
Approval: CE

Models for CDWC

Model	CDWC		Wall mount CO ₂ Controller
Communication		0 1	N/A RS485/Modbus