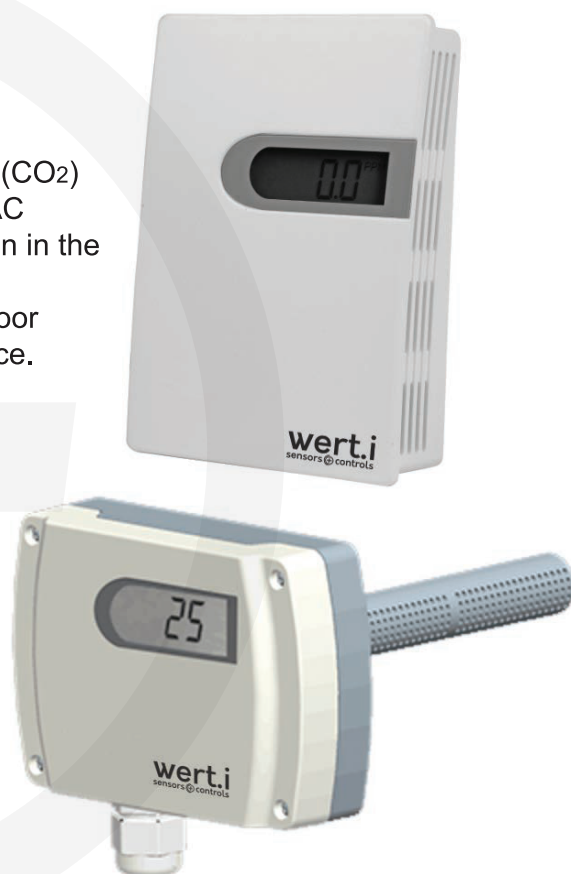


CARBON DIOXIDE (CO₂) TRANSMITTER

The CDT series transmitter is a stand-alone carbon dioxide (CO₂) sensor for use in determining ventilation necessity with HVAC controllers. The CDT series measures the CO₂ concentration in the ventilated space or duct. The CDT is used in ventilation and air conditioning systems to control the amount of fresh outdoor air supplied to maintain acceptable levels of CO₂ in the space.

Features

- ✓ High performance NDIR digital sensor and circuit, ensure precise measurement and temperature compensation
- ✓ Stable, reliable and fast response
- ✓ over voltage and reverse polarity protection, high reliability and anti-interference capability
- ✓ 15 years sensor life without maintenance
- ✓ LCD & function keys can set various parameters, calibrate and adjust output, so the product can be a stand alone controller



Specifications	
Sensor	NDIR sensor, with ABC algorithm*
Sampling Method	Diffusion
Accuracy	50 ppm + 5 % reading & 40 ppm + 3% reading
Response time	<120s (30cc/min, low airflow)
Drift	<±10 ppm/year
Range	0~2000 ppm (measurement range 400~2000 ppm)
Output signal	Current: 4...20mA (DC) / Voltage: 0...10V (DC)
Communication	RS-485
Relay output	2×SPST, 3A-30VDC/250VAC
Load resistance	Resistance: ≤ 500Ω (Current output), ≥ 2kΩ (Voltage output)
Power supply	16...35VDC / 16...28VAC
Display	Optional LCD, with unit display
Display resolution	1ppm
Working environment	0...50 °C, 0...85 %RH (Non-cond.)
Storage temperature	-20...60 °C
Housing	ABS+PC (Space mount), fireproof ABS+PC (Duct mount)
Protection	Space mount: IP30 / Duct mount : IP65 / IP30 (Probe)
Weight	Space mount: 135g, Duct mount: 240g

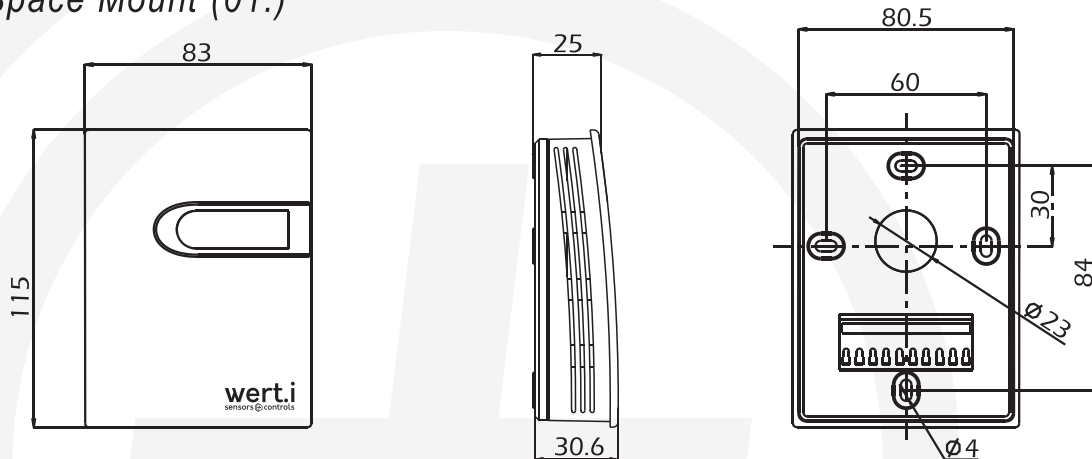
*ABC algorithm: Automatic Baseline Correction, it constantly keeps track of the sensor's lowest reading over a few days interval and slowly corrects for any long term drift detected as compared to the expected fresh air value of 400 ppm CO₂.

CDT SERIES

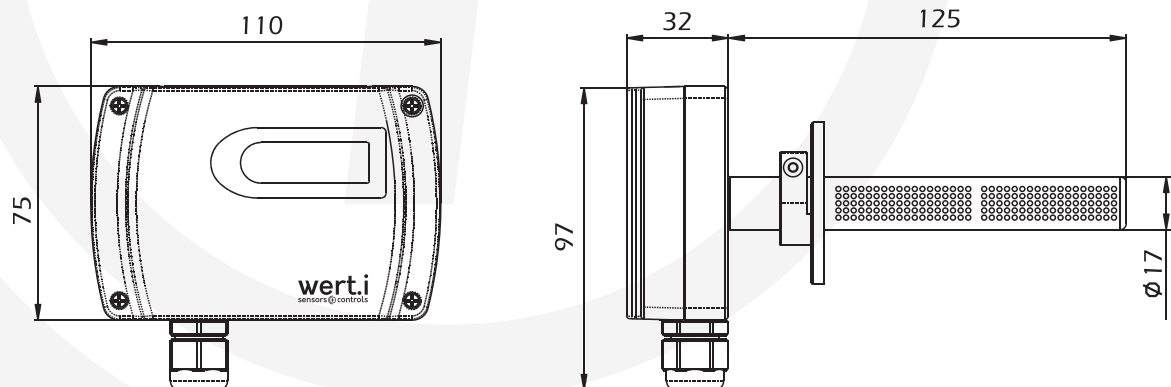
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sensors ⊕ controls

Dimensions (in mm)

Space Mount (01.)



Duct Mount (02.)



Ordering code

ITEM	CODE	
SERIES	CDT.	CARBON DIOXIDE TRANSMITTER
ACCURACY	03.	40 ppm +3% of Reading
	05.	50ppm + 5% of Reading
TYPE	01.	Space Mount
	02.	Duct Mount
OUTPUT SIGNAL/ CONTACT OUTPUT	421.	4 – 20mA DC / 0 – 10V DC
	485.	RS485 MODBUS
	48R.	RS485 MODBUS & 2 X SPST Contact**
	R.	2 X SPST Contact **
DISPLAY / KEYPAD	N	Without
	D	With Display
	K	Display with Keypad**

**Applicable for Space Mount (01.) & Contact output (48R / R.) model only