

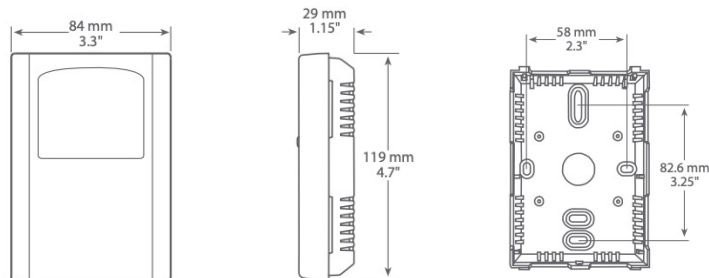


AZ-CD2RMC

ROOM CARBON DIOXIDE DETECTOR

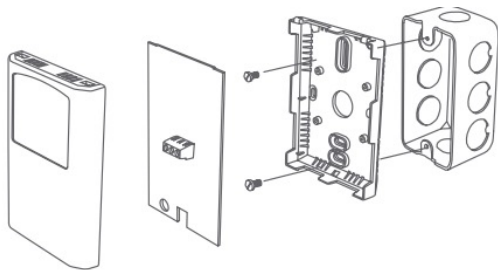
DESCRIPTION

The room CO₂ transmitter device uses a highly accurate and reliable nondispersive infrared (NDIR) sensor in an attractive, low profile enclosure for room applications to monitor CO₂ levels. The sensor uses dual wavelength optics and LTA (long term adjustment) signal processing technology to deliver industry leading long-term accuracy and reliability. These technology features ensure optimum measurement stability for both periodic and constant occupancy applications, so the device is equally suitable for a classroom or a hospital room. Standard features include a field selectable output signal of either 4-20 mA, 0-5 Vdc or 0-10 Vdc for the highest versatility, programmable CO₂ measurement span, a backlit alpha-numeric LCD and easy menu operation for configuration. Optional features include a resistive temperature sensor output (with LCD display of temperature in either °C or °F), 2 button setpoint adjustment, a control relay with programmable setpoint, hysteresis and time delay, and a dry-contact override switch.



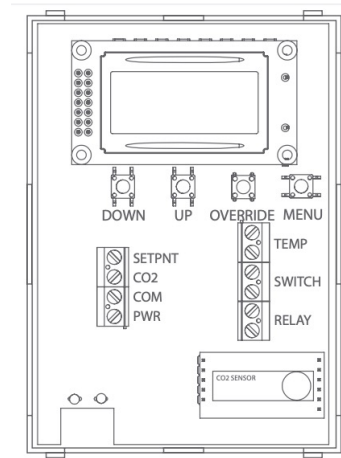
TYPICAL INSTALLATION

For complete installation and wiring details, please refer to the **product installation instructions**. The AZ-CD2RMC series can be mounted directly to a single gang electrical box or directly to a wall. The backplate includes many mounting hole configurations to allow for mounting on a variety of electrical boxes. The basic CD2RMC has a 3 wire configuration with a screw block terminal provided for connection to the Building Automation System.



WIRING INFORMATION

TERMINAL	FUNCTION
SETPT	RESISTANCE OUTPUT
CO 2	ANALOG OUTPUT
COM	COMMON
PWR	SUPPLY VOLTAGE
TEMP	RESISTANCE OUTPUT
SWITCH	DIGITAL OUTPUT
RELAY	DIGITAL OUTPUT



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200B VERDI STREET, FARMINGDALE NY 11735
SALES@DVACHVAC.COM
516-256-3131





AZ-CD2RMC

ROOM CARBON DIOXIDE DETECTOR

ORDERING

Product	CD2RMC	Room Carbon Dioxide Sensor
Display	C V	Concealed LCD (Not Available if setpoint selected) Viewable LCD
Optional Temperature Sensor	XX 02 05 06 07 08 12 13 14 20 24 59	None 100 Ω Platinum, IEC 751, 385 Alpha, thin film, 3-wire 1801 Ω NTC Thermistor, $\pm 0.2^{\circ}\text{C}$ 3000 Ω NTC Thermistor, $\pm 0.2^{\circ}\text{C}$ 10,000 Ω Type 3, NTC Thermistor, $\pm 0.2^{\circ}\text{C}$ 2.252K Ω NTC Thermistor, $\pm 0.2^{\circ}\text{C}$ 1000 Ω Platinum, IEC 751, 385 Alpha, thin film 1000 Ω Nickel, Class B, DIN 43760 10,000 Ω Type 3, NTC Thermistor, $\pm 0.2^{\circ}\text{C}$ c/w 11,000 shunt resistor 20,000 Ω NTC Thermistor, $\pm 0.2^{\circ}\text{C}$ 10,000 Ω Type 2, NTC Thermistor, $\pm 0.2^{\circ}\text{C}$ 10,000 Ω , 25°C , $\pm 1\%$, B = $3435 \pm 1\%$ (25/85)
Optional Relay	X R	None Adjustable Relay
Optional Override	X S	None Override
Optional Setpoint Adjustment	XXX P00 P01 P02	None 0 to 10,000 Ω 20,000 to 30,000 Ω 2,000 to 3,000 Ω
Accessories	CDD1- CALKIT- GS	Calibration kit (Gas not included) for calibrating CD & CDD series CO2 Transmitters

PART NUMBER

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AZ-CD2RMC

ROOM CARBON DIOXIDE DETECTOR

SPECIFICATIONS

GAS TYPE DETECTED	CARBON DIOXIDE (CO ₂)
SENSOR TYPE	DUAL CHANNEL NON-DISPERSIVE INFRARED (NDIR)
SENSOR ACCURACY	± (30PPM + 3% OF MEASURED VALUE)
MEASUREMENT RANGE	0-2000PPM, ADJUSTABLE 1000-10000PPM
TEMPERATURE DEPENDENCY	±2.5 PPM/°C
RESPONSE TIME	20 SECONDS (T63)
WARM-UP TIME	1 MINUTE
SENSOR COVERAGE AREA	100 M2 (1000FT2) TYPICAL
SENSOR LIFE SPAN	>15 YEARS
TRANSMITTER ACCURACY	±0.25% OF SPAN (INCLUDING LINEARITY, HYSTERESIS AND REPEATABILITY)
POWER SUPPLY	24 VDC ±20% OR 24 VAC ± 10% (NON-ISOLATED HALF WAVE RECTIFIED)
PROTECTION CIRCUITRY	Reverse voltage protected and transient protected
INPUT VOLTAGE EFFECT	Negligible over specified operating range
OUTPUT SIGNAL TYPE	4-20 mA (3-wire), 0-5 or 0-10 Vdc (field selectable)
OPTIONAL RELAY OUTPUT	Contact Ratings: Form A contact (N.O.), 2 Amps @ 140 Vac/30 Vdc Relay Trip Point: CDD5A & B - Programmable 500 - 2000ppm via keypad CDD5C & D - Programmable 500-15,000ppm via keypad Relay Hysteresis: CDD5A & B - Programmable 25-200ppm via keypad CDD5C & D - Programmable 25-500ppm via keypad
CURRENT CONSUMPTION	Current: 75 mA @ 24 Vdc max, 150 mA @ 24 Vac max Voltage: 50 mA @ 24 Vdc max, 100 mA @ 24 Vac max
OUTPUT DRIVE @ 24 VDC	Current: 550Ω max Voltage: 10,000Ω min
AMBIENT OPERATING RANGE	0 to 50°C (32 to 122°F), 0 to 95 %RH non-condensing
STORAGE TEMPERATURE	-40 to 70°C (-40 to 158°F)
LCD DISPLAY	Units: ppm (CO ₂), °C/°F (optional temperature/setpoint) Range: 0 to 10000ppm, 0 to 50°C (32 to 122°F) Size: 35mm W x 15mm H (1.4" x 0.6"), 2 lin x 8 character, alpha-numeric Digit Height: 2-line x 8 character
OPTIONAL TEMPERATURE SENSOR	Type: Thermistor and RTD (see ordering chart) Accuracy: See ordering chart Output: 2-wire resistive
OPTIONAL RELAY (2-WIRE OUTPUT)	Rating: Form A (N.O.), 2 Amps @ 140 Vac / 30 Vdc
OPTIONAL OVERRIDE SWITCH (2-WIRE OUTPUT)	Rating: 50 mA @ 12 Vdc max
OPTIONAL SETPOINT CONTROL	Type: Front panel up/down pushbuttons Range: ±10 resistive steps, range 16 to 26°C in 0.5°C increments or 60 to 80°F in 1°F increments Midpoint: Default 21°C/70°F, programmable 18 to 25°C (64 to 77°F) Resolution: Programmable 0.5 / 1°C/°F Action: Programmable direct or reverse acting
ENCLOSURE	Material: ABS, White Dimensions: 84mm W x 119mm H x 29mm D (3.3" x 4.7" x 1.15") Protection: IP30 (NEMA 1)
WIRING	Screw terminal block (14 to 22 AWG)
APPROVALS	CE
COUNTRY OF ORIGIN	CANADA

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