

REINMEER

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TEMPERATURE / HUMIDITY CARBON DIOXIDE TRANSMITTER

RM-RNT250

[Data sheet](#)

Advanced high-precision transmitter for simultaneous monitoring of temperature, humidity, and CO₂ in industrial environments.

TEMPERATURE / HUMIDITY CARBON DIOXIDE TRANSMITTER MODEL RM-RNT250

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Application Areas

HVAC (Heating, Ventilation, and Air Conditioning)
Agriculture and Greenhouses
Food and Beverage Production
Pharmaceuticals and Healthcare
Building Automation Systems

Features

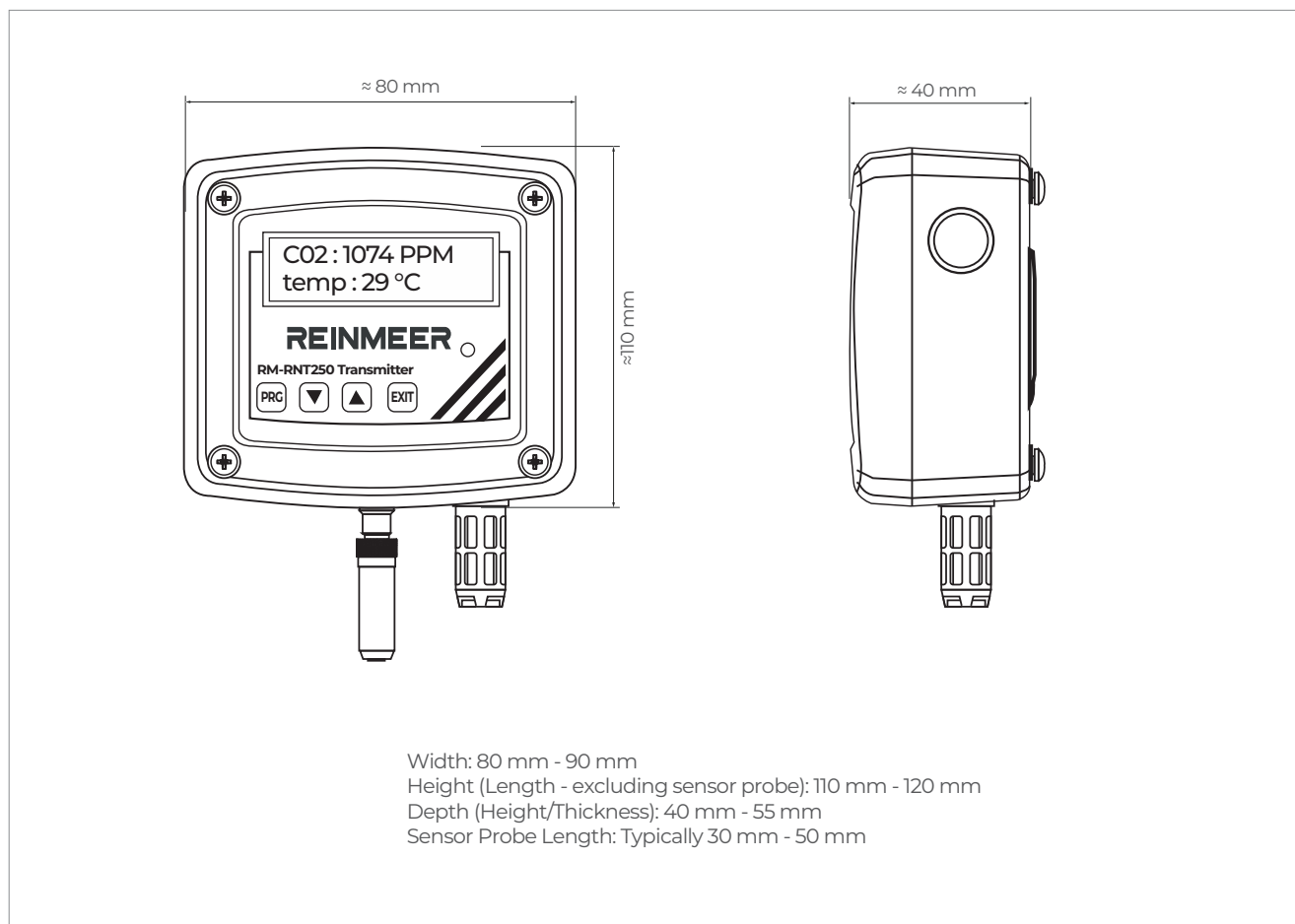
- 3-in-1 Measurement: Accurately measures Temperature (°C/°F Humidity, and CO2 (PPM/%).
- Reliable Sensor: Long-lasting NDIR CO2 sensor with a 10-year lifespan.
- Communication: RS485 Modbus RTU and scalable analog outputs (4-20mA, 0-20mA, 0-10V).
- Alarms & Control: Configurable 220V relay, built-in audible alarm, and LED indicator.
- User Interface: 2x16 Cog LCD screen with a simple 4-button control menu.
- Power Supply: Operates on 10-32V DC / 12-32V AC with low power consumption (2.8W).

Description

The Reinmeer RM-RNT250 is an advanced, high-precision transmitter specifically engineered to simultaneously monitor ambient temperature, relative humidity, and carbon dioxide (CO2) levels. Equipped with a highly reliable NDIR CO2 module, this device ensures accurate and stable measurements over a 10-year service life, making it ideal for continuous environmental tracking. It seamlessly integrates into existing building automation and industrial control systems through its user-scalable analog outputs and RS485 Modbus RTU communication protocol. Additionally, the clear 2x16 LCD screen, integrated audible warning system, and fully configurable relay outputs provide operators with an intuitive interface for real-time data analysis and instant response to critical atmospheric changes across various industrial applications.



Structure



TECHNICAL FEATURES

Brand / Model Code	Reinmeer RM-RNT250
Carbon Dioxide (CO2) Measurement	NDIR module. 0...5000 ppm range, 1% accuracy, 0.1 ppm resolution, and 10 years of service life. (Can be read as PPM or %)
Temperature Measurement	-40...+120 °C range, ± 0.3 °C accuracy, ± 0.1 °C resolution. (Can be read in Celsius or Fahrenheit)
Humidity Measurement	0-100 %rH range, ± 2% accuracy, ± 0.1% resolution.
Analog Outputs	4...20mA / 0...20mA / 0...10V (User-scalable current and voltage).
Communication	RS485 Modbus RTU (1200-115200 baud rate range). All device parameters can be read via this protocol.
Relay and Warning System	1 unit 220V 3A AC relay. Warnings can be assigned to the desired parameter; includes a built-in audible alarm and status LED indicator.
Display and Operation	2x16 Cog LCD Screen and 4 control buttons for easy device menu management.
Power Supply and Consumption	Operates on 10-32V DC or 12-32V AC; maximum power consumption is 2.8W.

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Probe Types Used



Metal Sintered Filter
(e.g., Dusty Environments)



Fine Metal Filter
(e.g., Clean Gases)



Plastic Cage
(e.g., Humidity Measurement)



Yellow Humidity /Temperature Probe
(e.g., Corrosion Resistant)

Contact us

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