RQAIR

VE788000



Carbon dioxide (CO_2) detector with a 230 Vac power supply and wall-mounted installation. Designed to monitor air quality in indoor environments such as stores, offices, public spaces, etc. The two relay outputs are activated when the respective CO_2 concentration thresholds are reached and can be used to activate ventilation units to force air exchange. In addition to carbon dioxide concentration, the sophisticated sensor is also capable of measuring temperature and humidity. The values for these three parameters are available via three analog outputs.

General features

- Fixing can be done directly on the wall or on a 3-module flush-mounted box (type 503) or similar
- Two front LEDs indicate the status of the output relays
- There are 3 LEDs on the front panel that provide a visual indication of the CO_2 concentration:
  - solid green for CO_2 concentrations below 800 ppm
  - yellow light for CO_2 concentrations between 800 ppm and 1200 ppm
  - red light for CO_2 concentrations above 1,200 ppm
- Sensor for the actual measurement of CO_2, temperature, and ambient humidity
- Two output relays with independent activation:
  - OUT1 active for CO_2 concentrations greater than 700 ppm
  - OUT2 active for CO_2 concentrations greater than 1300 ppm
- Three 0-10V analog outputs for:
  - CO_2, corresponding to the 0–2000 ppm range
  - temperature, corresponding to the range 0–50 °C
  - humidity, corresponding to the range 0–100% RH
- DIP switch to select between direct or inverse operating logic
  - OFF - direct operating logic: relay closed for CO_2 concentrations above the threshold
  - ON - inverse operating logic: relay open when CO_2 concentrations exceed the threshold

Technical specifications

Power supply	
Power supply	230 Vac (-15% ÷ +10%)
Frequency	50 Hz
Parameter settings	
Intervention threshold	700 ppm (Out 1) 1300 ppm (Out 2)
Operating conditions	
Operating temperature range	0 ÷ 50 °C
Relative humidity	30% ÷ 90% non-condensing RH
Storage temperature range	-10 ÷ 50 °C
Outputs	
Relay capacity at 250 Vac	8 (2) A

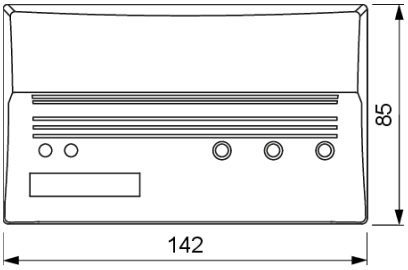
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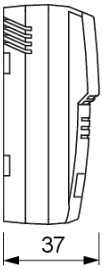
Mechanical features	
Protection degree	IP42
Physical features	
Color	White
Overall dimensions	
Height (A)	85 mm
Width (B)	142 mm
Depth (C)	37 mm

Dimensions

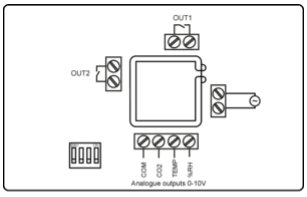
Front View



Side View



Wiring diagram



Reference standards

Compliance with Community Directives:

• 2014/35/UE (LVD) • 2014/30/UE (EMCD) • 2011/65/UE e 2015/863/UE (ROHS)

is declared with reference to the following Standards:

• EN IEC 60730-2-15 • EN IEC 63000

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