



## KET-AIR-210

**Applications** 

Air Quality

Versius

KET-AIR-200

KET-TLP-110



## ModBUS sensor for indirect CO2 and air quality measurement

- Innovative e-ink display always visible
- Perfect integration into BMS / BEMS systems
- Integrated thermostat function
- Internal memory

Considering that people spend up to?90% of their time indoors, the presence of?gaseous pollutants, particularly? Volatile Organic Compounds (VOCs), is significantly higher compared to open spaces. In high-density environments such as offices, schools, hospitals, and other? public premises, especially in modern buildings characterized by?poor air exchange, there is an increase in the concentration of?carbon dioxide (CO2)?produced by human activity. These negative indoor environmental conditions can significantly impact?people's well-being, contributing to health problems,?decreased concentration, and reduced?productivity. The?KET-AIR-210?device uses an indirect method of measuring?CO27based on a?MOX technology sensor, which estimates the amount of carbon dioxide by detecting the hydrogen concentration. Combined with a sensor dedicated to measuring?Volatile Organic Compounds (VOCs), the KET-AIR-210 allows for the implementation of effective measures to increase and improve?ventilation efficiency?and?air purification, creating healthier and more comfortable indoor environments. The?KET-AIR-210?also integrates high-precision sensors for measuring? Temperature, ? Relative Humidity, and? Ambient Light, and is equipped with an?RS485 ModBUS RTU Slave?interface, facilitating integration with control and data acquisition systems. The?KET-AIR-210.DY version?is equipped with a?zero-power e-ink display?that provides users with detailed information on the level of the rand comfort? present in the environment, ensuring?optimal and continuous reading?of the detected parameters with?minimal energy consumption. The? KET-AIR-210.TS version? allows the user to? set the desired comfort level, further personalizing the indoor environment. Designed for easy integration into building management and energy management systems (BMS / BEMS), the device offers a?simple user interface, facilitating the monitoring and control of air quality and environmental parameters. Suitable for use in public environments, it includes?keypad lock?and?limitation of active functions, ensuring safe and controlled use.

Technical Features	
General specifications	Protection Range: IP40 Operative Temperature: -10 ÷ +60 °C Storage Temperature: -15 ÷ +60 °C Relative Humidity: MAX 80% not condensing
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General specifications	Protection Range: IP40 Operative Temperature: -10 ÷ +60 °C Storage Temperature: -15 ÷ +60 °C Relative Humidity: MAX 80% not condensing Dimensions: 100 x 100 x 22.5 mm (W x H x D) Mounting: Panel mounting with supplied supports Material: ABS, self extinguishing: UL 94 V-O Supply Voltage: 5 ÷ 12 VDC Consumption: Connectors types: Removable spring clamps
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General specifications	Protection Range: IP40 Operative Temperature: -10 ÷ +60 °C Storage Temperature: -15 ÷ +60 °C Relative Humidity: MAX 80% not condensing Dimensions: 100 x 100 x 22.9 mm (W x H x D) Mounting: Panel mounting with supplied supports Material: ABS, self extinguishing: UL 94 V-O Supply Voltage: 5 ÷ 12 VDC Consumption: Connectors types: Removable spring clamps Memory Type: Internal Flash (only for .DL version) Data Storage Capacity: Retention of more than 60,000 data with date and hour even if there is no connection Channels: Supported Protocols: ModBUS RTU Slave Communication Rate: 9.6, 19.2, 38.4 o 57.6 Kpbs Isolation: Connectors types: Removable spring clamps