



# KET-RMB-211.CN.34

## Applications

## Climate control interface for cooling/heating systems, domestic hot water (DHW) production systems, thermal plants

- Rapid integration of climate control systems
- Wireless Connection
- Standardised ModBUS interface
- Access to diagnostic registers

The **KET-RMB-211.CN.34** climate control interface is a versatile **protocol converter for cooling/heating systems** as well as **domestic hot water (DHW) production systems**, equipped with a **Robur** control unit, designed for rapid and straightforward integration between air conditioning control units and higher-level control systems such as **BMS, BEMS, SCADA, PLC, Gateways**, etc.

This intelligent device offers a **standardized ModBUS interface** to the controller (master), organizing the system and managed zones on different slaves while maintaining a uniform control structure for all. This architecture significantly simplifies the integration process. The consistency in the structure of control and monitoring registers within the KET-RMB series ensures uniform management of different air conditioning systems.

The **amplified wireless connection** with **IEEE 802.15.4 protocol** allows for remote installation of the interface in secondary panels, eliminating the need for costly and complex wiring, leveraging the benefits of **wireless** communication for greater installation flexibility.

### Technical Features

|                        |                                                                                                                                                                                                                                                                                                     |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General specifications | <b>Protection Range:</b> IP50<br><b>Operative Temperature:</b> -20 ÷ +60 °C                                                                                                                                                                                                                         |
| Case                   | <b>Dimensions:</b> 53,5 x 110 x 61 mm (W x H x D)<br><b>Mounting:</b> DIN rail or Wall mounting with supplied supports<br><b>Required DIN modules:</b> 3 DIN modules<br><b>Electric Board Type:</b> Industrial or switchboard<br><b>Material:</b> Blend PC/ABS sel extinguishing UL94-V0            |
| Power supply           | <b>Supply Voltage:</b> 12 ÷ 24 VDC, 12 ÷ 20 VAC; 230 VAC with integrated power supply<br><b>Consumption:</b> < 1.5 W @ 12 ÷ 20 VAC / < 1.5 W @ 12 ÷ 24 VDC / < 1.5 W @ 230 VAC<br><b>Connectors types:</b> Screw terminal                                                                           |
| Rs485 interface        | <b>Supported Protocols:</b> ModBUS RTU master for managing a single control unit<br><b>Connectors types:</b> Screw terminal                                                                                                                                                                         |
| Radio module           | <b>Supported Protocols:</b> X-Monitor Protocol (X-MP) / IEEE 802.15.4<br><b>Radio Frequency:</b> 2.4 GHz ISM Band<br><b>Output Power:</b> +3 ÷ +20 dBm<br><b>Sensitivity:</b> -104 dBm<br><b>Antenna Type:</b> RPSMA connector, 90° antenna supplied<br><b>Max Distance (Free Air):</b> Over 1000 m |
| Functionality          | <b>Radio Signal Indicator:</b> Integrated (LinkQuality)<br><b>Output Power Adjustment:</b> From local keyboard and remotely<br><b>Firmware Upgrade:</b> Via radio                                                                                                                                   |
| Compatibility          | <b>Control Unit:</b> Robur DDC modbus interface<br><b>Controlled Units:</b> Cooling/heating units, domestic hot water (DHW) production, thermal plants                                                                                                                                              |