



# Climate control interface for AHU, ERV, ERV+, HE, HT, EHS, Module Chiller, FCU Kit systems

## KET-RMB-211.CN.33

### Applications

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

The **KET-RMB-211.CN.33** climate control interface is a versatile **protocol converter for AHU, ERV, ERV+, HE, HT, EHS, Module Chiller, FCU Kit systems** equipped with a **Samsung MIM-B19N** 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 <b>Operative Temperature:</b> -20 ÷ +60 °C
Case	<b>Dimensions:</b> 53,5 x 110 x 61 mm (W x H x D) <b>Mounting:</b> DIN rail or Wall mounting with supplied supports <b>Required DIN modules:</b> 3 DIN modules <b>Electric Board Type:</b> Industrial or switchboard <b>Material:</b> Blend PC/ABS sel extinguishing UL94-VO
Power supply	<b>Supply Voltage:</b> 12 ÷ 24 VDC, 12 ÷ 20 VAC; 230 VAC with integrated power supply <b>Consumption:</b> < 1.5 W @ 12 ÷ 20 VAC / < 1.5 W @ 12 ÷ 24 VDC / < 1.5 W @ 230 VAC <b>Connectors types:</b> Screw terminal
Rs485 interface	<b>Supported Protocols:</b> ModBUS RTU master for managing a single control unit <b>Connectors types:</b> Screw terminal
Radio module	<b>Supported Protocols:</b> X-Monitor Protocol (X-MP) / IEEE 802.15.4 <b>Radio Frequency:</b> 2.4 GHz ISM Band <b>Output Power:</b> +3 ÷ +20 dBm <b>Sensitivity:</b> -104 dBm <b>Antenna Type:</b> RPSMA connector, 90° antenna supplied <b>Max Distance (Free Air):</b> Over 1000 m
Functionality	<b>Radio Signal Indicator:</b> Integrated (LinkQuality) <b>Output Power Adjustment:</b> From local keyboard and remotely <b>Firmware Upgrade:</b> Via radio
Compatibility	<b>Control Unit:</b> Samsung MIM-B19N <b>Controlled Units:</b> AHU, ERV, ERV+, HE, HT, EHS, Module Chiller, FCU Kit