



connectivity, monitoring and remote management systems

remote management and communication solutions



rTM SE system wireless transmission for RS485 Modbus[®] serial communication

For communication between instruments with RS485 Modbus[®] serial connection requiring supervisor (or controller) integration using a wireless solution, CAREL offers the rTM SE system modules Router-Bridge and Access Point.

The Router-Bridge is connected locally to the instruments on the RS485 Modbus[®] serial line, acquiring the data from the instruments and then forwarding these to the Access Point via a wireless connection. The Access Point is physically connected to the supervisor, while the instruments connected locally to the Router-Bridge are logically assigned to the main network (where the Access Point is physically connected).

This is a good solution for all refrigeration and air-conditioning applications and others in general with similar needs.

The wireless devices communicate using a protocol based on MESH network management, providing self-adaptive communication between devices installed by optimising wireless routes if the devices cannot be reached directly by the Access Point, so as to guarantee continuous communication.

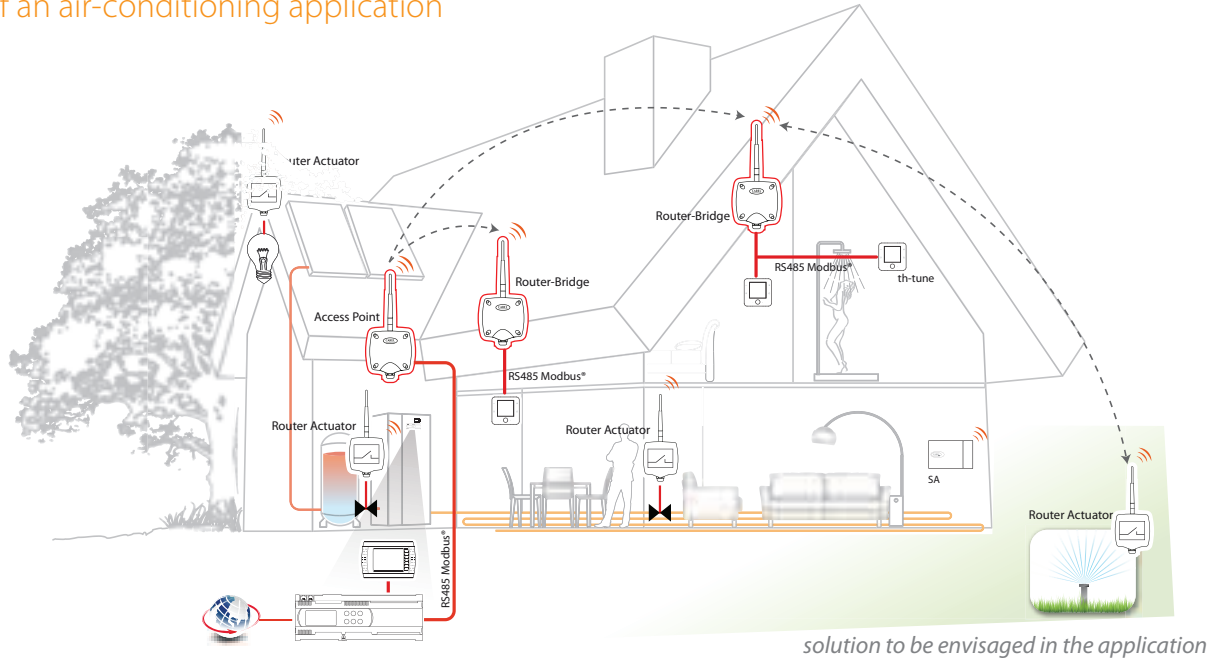
The system offers a solution for all wired devices that need to communicate wirelessly.

The devices can be moved within a predefined layout covered by the wireless signal.

The solution proposed reduces installation costs by eliminating the serial connection cable in the main sections, and saves considerable time during installation. The system can be easily extended and integrated at a subsequent stage.

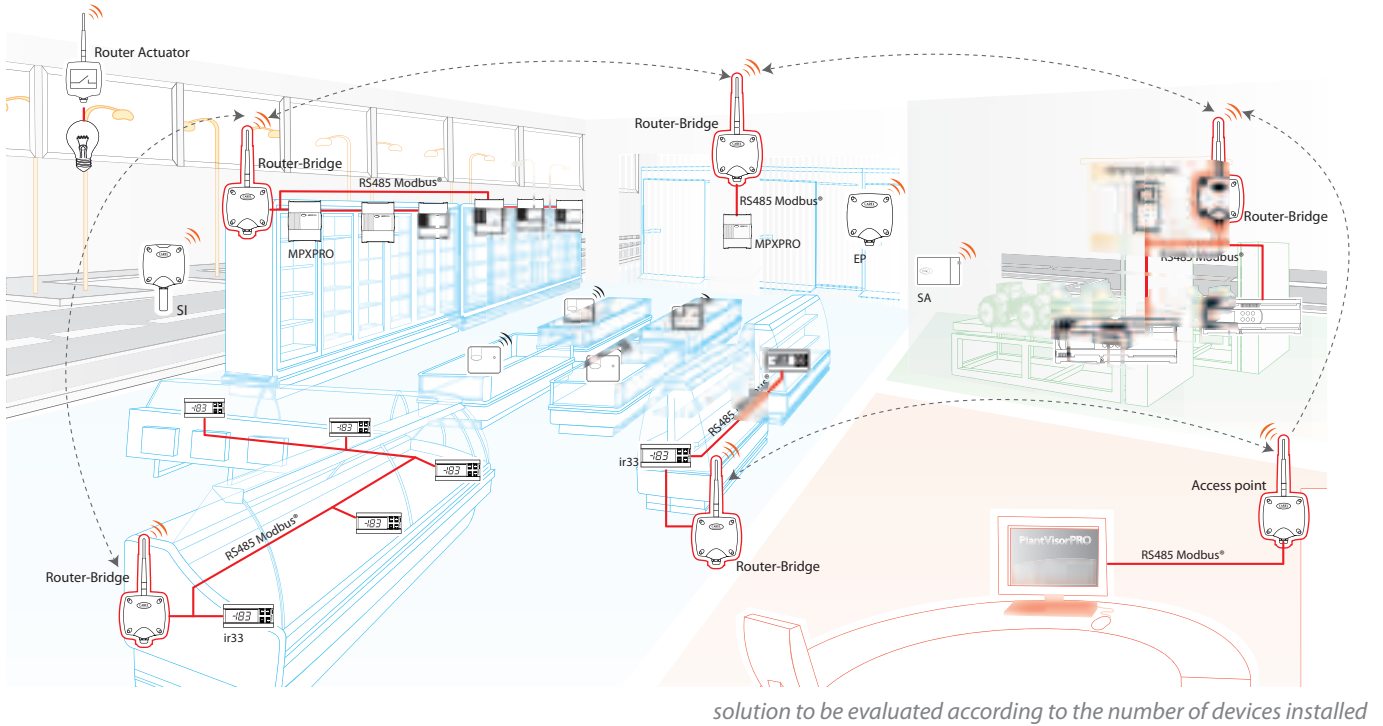
- No serial cable required and lower installation costs;
- Flexible layout;
- Simple installation and maintenance

Example of an air-conditioning application



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Example of a retail application



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Simplifies wiring by replacing the serial cable



Communication via Zigbee wireless protocol over a MESH network



Easy to install and configure

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