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Product installation (continued)

Product mounting process:

Fix the unit to the wall





Product disassembly:

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e-Bus Coupling Surface RS-485

Bus Couplint Unit to connect e-Touch Display Mini and panel with e-Room Modular fan-coil controllers. Ordering number: BC.470011-031

The e-Bus Coupling Surface RS-485 is the connection frame that provides power supply and communication between the e-Touch Display Mini and e-Touch Display Panel and the e-Room Modular controllers through the RS-485 bus.

It is part of the room and zone climate control system, enabling the exchange of data and setpoints between the display and the fan-coil controller, as well as the system configuration through the e-Touch Display Mini using the E-Configurator APP, or directly from the e-Room Modular controller.

Product description

The e-Bus Coupling Surface RS-485 is a surface-mounted coupling unit that The unit is designed for surface mounting, fixed to the wall using two screws. provides the power supply and communication required for the e-Touch Display Mini or e-Touch Display Panel to operate and communicate with an e-Room The decorative frame acts as a protective enclosure for the product, Modular controller

communication with an e-Room Modular fan-coil controller through two twisted and shielded copper wires, used to transmit commands such as on/off, fan-coil speed, temperature setpoint, and the environmental sensor values measured by the display (temperature, humidity, CO2, and VOC).

The e-Room Modular controller uses this information to perform automatic climate regulation and monitoring of the room or zone status.

The unit is powered directly from the e-Room Modular, so the corresponding voltage must be supplied through a pair of copper wires.

The system configuration is carried out via the NFC interface of the e-Touch Display Mini or Panel using the E-Configurator APP, or through the Modbus interface of the e-Room Modular fan-coil controller.

Operating LED indicator (STATUS)

The unit includes a front LED indicator called Status, which shows whether the device has been correctly installed:

- When power is applied to the unit, the LED indicator briefly flashes and then turns
- · Normal operation: when the unit is operating correctly, the LED remains off.

Device configuration

This product can be configured through the NFC interface of the touch display connected to the unit using the E-Configurator APP, or through the Modbus communication port of the e-Room Modular fan-coil controller connected to the

To configure the unit using the E-Configurator APP, the display model, coupling unit model, and e-Room Modular controller model must be selected before uploading the project to the device.

Instruction sheet







Product installation

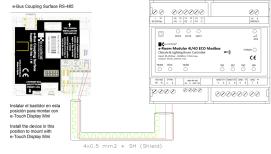
Depending on the wall type, the appropriate screws and plugs must be used. leaving the unit completely closed once installation is completed. The product includes an RS-485 communication interface that allows The connection cables to the device must not have a cross-section greater than 0.5

- 1. Verify that the product is installed in the correct orientation, following the directional arrows (top and bottom) engraved on the coupling unit and the indications on the product label.
- 2. Pass the power supply and communication bus cables through the hole in the coupling unit (see installation diagram).
- 3. Fix the e-Bus Coupling Surface unit to the wall using the appropriate screws.
- 4. Attach the decorative frame to the coupling unit by inserting the upper clips first and pressing lightly on the lower part until a "click" is heard
- 5. Fit the e-Touch Display Mini front panel, centering it on the frame and aligning the display connector with the coupling unit connector.
- 6. Power the system and verify that the display turns on correctly.

Precautions

- · Disconnect the device from the power supply before installing or handling the
- · Do not leave bare or coiled cables around the device.
- · Do not connect the unit with wet hands.
- Do not open or perforate the product.
- Keep the device and cables away from moisture and dust.
- · Do not expose the unit to direct sunlight.
- Use the product in pollution-free environments and within the permitted atmospheric pressure levels.
- · Avoid impacts or drops on the unit.
- Keep the ventilation openings clean using a dry cloth or compressed air.

Installation drawing



Technical features

Power supply

Operating voltage .24 VDC Maximum rated current .50 mA Internal connector .1erminal type
Communications
Interface. RS-485 Terminals A-, B+, GND
STATUS LED Indicator
Color
Mechanical features
Dimmensiones. 78x78x15 mm Mounting type. Surface mounting Weight. 60 g. Connection terminals Screw block terminal Cable cross section Maximum Q50 mm²
Operating temperature -10°C to +50°C Operation -20°C to +85°C Storage -20°C to +85°C
Humidity (no condensation)
Operating 10% to 90% RH at 50℃ Storage. 95% RH at 50℃
Product familiy standards Automatic electrical controls for household and similar use
CE Conformity Marking
Safety Standard EN 60730-1 Protection class IEC
EMC EN 61000-6-3 Immunity EN 61000-6-1
Ordering number

The packaging of this product is considered an industrial container, with the recipient being a profesional. The manufacturer is not responsable for the incorrect use or installation of the product. Read this document before installing the product. Document subject to changes without prior notice.

