

Clima

e-Room[®] Controller

Climate room controller for fan coil rooms



Multi-configurable fan-coil controller for any installation

e-Room Controller is a stand-alone fan coil controller for hotel rooms, offices and zones, designed to satisfy the most demanding requirements in climate control and energy saving, thanks to its configuration possibilities and integrated functions on the device. It can operate in two or four pipes water installations and provides occupancy zone detection throughout a key card contact or a motion sensor, which allows switching off the climate when zone changes to unoccupied state. The device includes a function to stop the climate when the window is opened, avoiding unnecessary energy consumption.

The product is installed with the **e-Display** or **e-Display Plus** devices which has a keyboard, temperature sensor, and visualization display, and provides it the supply and a bus connection for the communication. It has configurable digital inputs for key card contact/motion sensor, window contact and an analogue input to connect to an external temperature sensor or for door open detection purposes. The controller includes three relay outputs to control the fan coil speed and one or two outputs for cool valve actuator and heating/lighting depending on the device model. The device is directly supplied from mains and is designed to be installed in a DIN rail enclosure.

The product is available to operate in stand-alone mode or with Modbus RTU communication bus to monitor and remote control of the installation, including the necessary registers to configure and manage throughout an SCADA application.



Energy saving for unoccupied room

Stand-alone / Modbus remote control

Operates with 0, 1 or 2 displays

Mains electrical supply

DIN rail mounting + Display

DATASHEET

Energy Savings

- Climate control for occupancy detection
- Occupancy detection based on key card or motion sensor
- Window contact stops HVAC
- Max/min configurable setpoint
- Changes to OFF/ECO mode if room unoccupied

Device configurations

- 9 different pre-defined operating modes
- Centigrade/Fahrenheit displayed
- 1 or 3 fan-coil speed selection
- Fan-Coil state without demand
- Device OFF or ECO by changing to unoccupied
- HEAT/COOL mode operation
- 2 Pipes / 4 Pipes installation
- Temperature/setpoint displayed
- Max/Min setpoint
- Setpoint in Occupied/ECO state
- Device state after reset
- Auto-switch On device HEAT/COOL
- Valve actuators NO/NC type
- Window contact NO/NC type
- Lighting courtesy/contact output
- 0, 1 or 2 displays available
- Display backlight level
- Speed and parity Modbus (bus model)

Features

- Supply Voltage: 95 to 250Vac - 50/60Hz
- Stand-alone operation
- BMS Bus: Modbus RTU (RS-485) (model MS.57XX01-000)
- Room Bus:
 - RS-485
 - Supply output 12Vdc, max. 100mA
- Digital inputs (Contact type):
 - Keycard / Motion sensor
 - Window
- Analog / Digital input:
 - Water sensor / Door
 - Temp sensor / Lighting pushbutton
- Relay outputs (5Amp):
 - Three Fan-Coil speeds (3 outputs)
 - Heat-Cool valve actuator / Cool valve actuator (2P/4P)
- Flush mounting
- DIN rail, 6TE
- Dimensions: 147x90x58mm
- Weight: 140gr.

Ordering numbers

RN.502401-000

e-Room Controller Stand-Alone 2I/4O

Inputs: Keycard, Window
Outputs: 3 Fan-Coil speeds, Cool VA

RN.503501-000

e-Room Controller Stand-Alone 3I/5O

Inputs: Keycard/Motion sensor, Window, Water/Door
Outputs: 3 Fan-Coil speeds, Cool VA, Heat VA/Lighting



RN.573501-000

e-Room Controller Modbus 3I/5O

Inputs: Keycard/Motion sensor, Window, Water/Door
Outputs: 3 Fan-Coil speeds, Cool VA, Heat VA/Lighting
BMS Bus: Modbus RTU

RN.574501-000

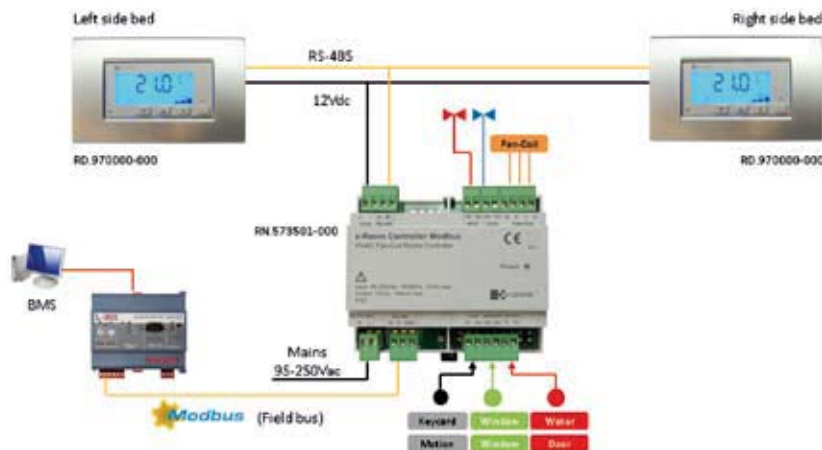
e-Room Controller Modbus 4I/5O

Inputs: Keycard/Motion sensor, Window, Water/Door, Temp sensor/Lighting
Outputs: 3 Fan-Coil speeds, Cool VA, Heat VA/Lighting
BMS Bus: Modbus RTU



e-Room[®] Controller Modbus 3I/5O

Inputs / Outputs Diagram



More efficient
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