

# Clima

# e-Room<sup>®</sup> Controller



Climate room controller for fan coil rooms



## Energy efficiency with automatic occupancy detection

**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** device 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 operation

Modbus RTU optional

Mains electrical supply

DIN rail mounting + Display

RN.573501-000

Remote controller with optional Modbus protocol



# 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

- 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
- 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:
  - Modbus RTU (RS-485)
  - Supply output 12Vdc, max. 100mA
- Digital inputs (Contact type):
  - Keycard / Motion sensor
  - Window
- Analog / Digital input:
  - Water sensor / Door
- Relay outputs (5Amp):
  - Three Fan-Coil speeds (3 outputs)
  - Heat-Cool valve actuator / Cool valve actuator (2P/4P)
  - Courtesy Lighting / Heat 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 RTU 3I/5O**  
Inputs: Keycard/Motion sensor, Window, Water/Door  
Outputs: 3 Fan-Coil speeds, Cool VA, Heat VA/Lighting  
BMS Bus: Modbus RTU



- RD.970001-000**  
**e-Display RS-485 12V**

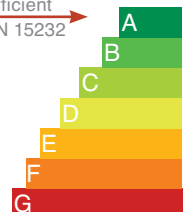


# e-Room<sup>®</sup> Controller Modbus 3I/5O

## Inputs / Outputs Diagram



More efficient  
UNE-EN 15232



DDS0014514000-0, RN.5X3500-000 - e-Room Controller DDSEN