

Clima

e-Room®



Room Climate Control for Fan Coil applications

Applications:

- 1 Hotel 2P / 4P keycard switch contact
- 2 HVAC control with occupancy sensor



Energy Efficiency in HVAC

e-Room® is a device designed to provide overall room climate control on fan coil based systems. The device operates over the HVAC system depending on the occupancy status of the room and the window status, managing the fan coil and valves according to the temperature and the setpoint defined. Its operation provides a user friendly control and allows remote facility management through an standard ISO/IEC 14908 (LonWorks®) or Modbus RTU (RS-485) communication bus depending on model. Originally designed for use in hotels, its versatility has made it present nevertheless in offices, small rural hotels and homes, amongst others.

e-Room® Classic is a solution comprising a single device that includes on its front panel a large display screen, pushbuttons and a temperature sensor, in addition to card reader contact and window contact inputs that provide energy efficiency optimization in installations. It further includes analog inputs for water temperature measurement (changeover function), and external temperature sensor measurement. The device also includes output relays for Heat/Cool valve actuator On/off control and three outputs to manage fan coil speed. All these features are included in a single device to support a simple, easy and fast installation and to optimize startup times and facility maintenance. In case of two pipes installation, the additional output can be used also for lighting control purposes. Thanks to its versatility, the device can be configured to control the occupancy status of the room using a keycard contact or a motion sensor and a door contact.

Two different models comprise the product reference: **e-Room® Classic** for LonWorks® installation based systems and **e-Room Modbus** for Modbus RTU installations.



RC.624501-000

Energy consumption optimization

Designed for 2 pipe and 4 pipe systems

On/Off valve control

Stand-alone operation

Easy installation

LonWorks® or Modbus RTU

DATASHEET

Energy Efficiency

- Up to 20% energy savings
- Zone occupancy detection based on keycard switch contact or motion detector upon model
- Window contact stops operation
- Configurable Max/Min setpoints
- Dual ON/ECO setpoint
- ECO mode on unoccupied zone

Remote Management

- Remote manual or programmable On/Off control
- Adjustable setpoints
- Pushbutton locking feature

Integration

- ISO/IEC 14908-2 TP/FT-10 LonWorks[®] bus
- LonMark[®] compatible
- Modbus RTU (RS-485)

Patented product

Installation

- One single device per zone
- Reduced installation time
- Improved maintenance

Features

- Supply Voltage 24Vac/24Vdc
- Stand-alone operation
- Front panel ambient temperature sensor
- Blue backlighted LCD display
- Digital inputs (contact type):
 - Keycard switch contact / Motion detector (Classic/Detector)
 - Window contact
- Analog inputs (NTC10K):
 - Water temp. Heat-Cool / Door contact (Classic/Detector)
 - External temperature sensor (optional)
- Relay outputs (5Amp):
 - Three Fan-Coil speeds (3 outputs)
 - Heat-Cool valve actuator / Cool valve actuator (2P / 4P)
 - Auxiliary / Cool valve actuator (2P / 4P)
- TP/FT-10 twisted pair (Lon model)
- RS-485 twisted pair (Modbus model)
- BTicino Light frame (different colors available)

Ordering numbers

RC.624501-000
e-Room[®] Classic



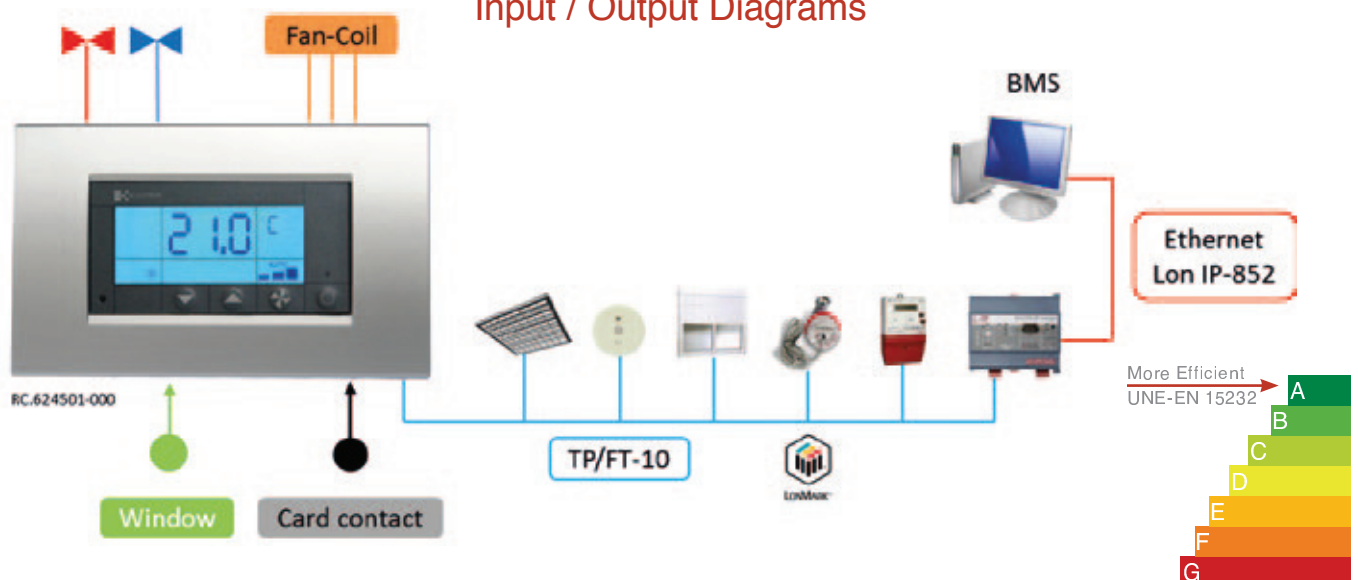
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e-Room[®] Modbus



e-Room[®] Classic application for keycard switch contact 4 pipes installation

e-Room[®] Classic

Input / Output Diagrams



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