

Clima

e-Room[®] Panasonic



Room climate control for VRF applications

Application:

1 Direct expansion indoor unit and room control



Direct expansion system control and room management in a single device

The e-Room[®] Panasonic room climate controller, specially designed for hotel installations, provides direct control of a direct expansion indoor unit without the need for gateways. The device includes inputs and outputs to optimize room energy consumption by operating climate, lighting and motorized blind or curtain controls based on room occupancy.

Four operating modes are available to adapt device inputs and outputs to the requirements of each installation. Depending on the selected option, room occupancy may be monitored through a keycard switch contact or a motion detector in order to drive climate control, lighting or curtains based on room occupation. The device includes also a window contact input that will temporarily stop climate control operation, in addition to a temperature sensor that will control a secondary climate zone through a valve actuator output.

e-Room[®] Panasonic is available in two product models: one model for stand-alone operation with no communication bus, and another model with a Modbus or LonWorks communication bus that allows integration into a building management installation for remote climate control.

RV.004401-000

Direct indoor unit control

Climate, lighting and curtain management

Comprehensive control for maximum savings

Remote climate control activation

May be integrated into a BMS

DATASHEET

Energy Savings

- Climate and lighting control OFF when room is unoccupied
- Climate control ON/OFF through window contact
- Occupancy based temperature setpoint
- Dual Comfort/ECO setpoint for Heat/Cool
- Dual configurable user and operating setpoints
- Temperature sensor for secondary zone

Indoor Unit Control

- Direct e-Room® control
- Available functions: ON/OFF, Setpoint modification, Fan-Coil speed (I-II-III-AUTO), Heat/Cool

Device Configuration

- Celsius/Fahrenheit display
- Fan coil position on no demand
- Device on OFF or ECO on no occupation
- Heat/Cool mode change
- Occupancy detection through keycard switch or motion detector
- Setpoint for Occupied/ECO
- Secondary zone setpoint offset

Features

- Indoor unit control
- No bus or remote control bus options
- Ambient temperature sensor
- Blue backlit LCD screen
- Four installation based operating modes
- Three digital inputs (dry contact):
 - Keycard switch/Motion detector/ Lighting contact
 - Window contact
 - Blind raise-up pushbutton/Door contact
- One analogue input (NTC10K):
 - Blind lower pushbutton/External temperature sensor
- Four output relays (5 Amp):
 - Courtesy light
 - Lighting breaker
 - Blind raise-up motor
 - Blind lower motor/Secondary zone valve
- Alarm indication on display screen
- Alarm reporting via bus
- Supply from indoor unit bus
- BTicino Light / Light Tech frame

Installation

- Single device per zone
- Reduced installation time
- Improved maintenance

Ordering numbers

RV.004401-000
e.Room® Panasonic Stand-Alone

RV.074401-000
e.Room® Panasonic Modbus RTU

RV.024401-000
e.Room® Panasonic Lon TP/FT-10



Available I/O configurations for different operating modes

	Input 1	Input 2	Input 3	Input 4
Option 1	Keycard	Window	Lighting	Temperature
Option 2	Keycard	Window	Blinds Up	Blinds Down
Option 3	Motion S.	Window	Door Contact	Temperature
Option 4	Lighting	Window	Blinds Up	Blinds Down

	Output 1	Output 2	Output 3	Output 4
Option 1	Courtesy	Lighting	Not Used	Valve actuator
Option 2	Courtesy	Lighting	Blinds Up	Blinds Down
Option 3	Courtesy	Lighting	Not Used	Valve actuator
Option 4	Not used	Lighting	Blinds Up	Blinds Down



Patented product

e-Room® Panasonic

Input / Output Diagrams



More efficient
UNE-EN 15232

