

# e-Room® Panasonic Stand-Alone

EN

Stand-alone controller for rooms with climate VRF Panasonic system  
Ref: RV.004401-000

**e-Room® Panasonic Stand-Alone is a device designed to perform a global room automation, providing a high comfortable level, an energy cost reduction, and a better integration of the rooms in the building.**

**The device enables or stops an indoor unit climate, lighting and curtains control and manages the state of a secondary zone climate when room changes into occupied or unoccupied state, reducing energetic consumption and efficiency integrating climate into global room control.**

**The device is a compact unit that includes a large backlight display screen, a built in temperature sensor, pushbuttons on the front panel, and inputs and outputs for a global control of the main room services.**

## Instruction Sheet



### Product description

Room controller e-Room® Panasonic Stand-Alone is a device designed to perform a global room automation for hotels, offices or homes with climate systems based on VRF Panasonic indoor units. The device has a communication protocol which allows managing a climate indoor unit without needing other remote controls, interacting with the unit when occupied or unoccupied room is detected.

The device has digital/analogue inputs which are used to detect the occupancy room state through a keycard contact or motion sensor and door contact, in addition of a window contact which is used to stop climate when the window is

open. It is possible to control a second zone climate on separate rooms like bedroom and bathroom throughout an analogue input connecting an external temperature sensor. The device includes various relay outputs to control different functions like lighting state, motorized curtains or blinds and a second zone climate.

There are four possible operating modes on the device; each one has a different operating and input/output configuration, which must be selected depending on the installation configuration that better suits to the operating requests.

### Product installation

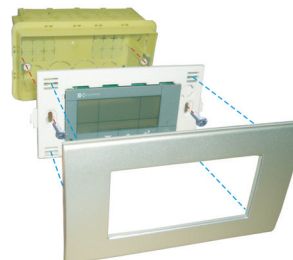
This device should not be installed on shelves, behind curtains, above or near heat sources, or exposed to direct sunlight. For fast and accurate ambient temperature measurement, the controller should be installed such that air may circulate vertically. Installation height should be approximately 1.5 m from the floor.

#### Caution:

- Prior to installing or removing the device, ensure that there is no mains voltage present in the wiring to be connected or near the unit.
- Do not cut or roll up the wires to be connected to the device.
- Do not work on the wiring with wet hands.
- Do not open or drill through the device.
- Keep the device and the supply wires away from moisture and dust.
- Use a damp cloth to clean the device.

#### Installation steps:

- 1- Install the flush mount back box on the wall
- 2- Connect all wires to the appropriate device terminals ensuring that there are no voltage in any wire following the wiring diagram.
- 3- Seal the internal flexible cable conduit to avoid air flowing into the device.
- 4- Insert and screw the device in the box
- 5- Fit the frame onto the device
- 6- Remove the front panel anti-scratch protective foil



## Technical features

### Supply power

Operating voltage . . . . . R1-R2: 14 Vdc – 16 Vdc  
 Maximum rated current . . . . . 100 mA

### Digital Inputs (IN1, IN2, IN3)

Open circuit voltage . . . . . 10,5 Vdc ±0,2 V  
 Short circuit current . . . . . 7 mA  
 Maximum open contact current . . . . . <5 mA  
 Minimum open contact current . . . . . >6,5 mA

### Analog Inputs (IN4)

Type . . . . . Resistivo  
 Characteristics . . . . . NTC intercambiabile, 1%  
 10 KOhm a 25°C (77°F)  
 Temperature measuring range . . . . . +5°C a +45°C (+41°F a 113°F)  
 Resolution . . . . . 0,5°C

### Temperature sensor front panel

Temperature measuring range . . . . . +5°C a +45°C (+41°F a 113°F)  
 Resolution . . . . . 0,5°C

### Digital outputs

Contact type . . . . . Relay potential free  
 Normally open  
 Maximum operating voltage . . . . . 250 V ca  
 Maximum current . . . . . 5 A, resistive load  
 3 A, inductive load

### Display LCD

Type . . . . . Backlight liquid crystal  
 Dimensions visible area . . . . . 64x26mm  
 Lighting type . . . . . White LED

### LED front panel indicator

Climate switch on . . . . . Led switch off  
 Standby . . . . . Green Led switch on  
 Reset device . . . . . Red Led switch on  
 Indoor Unit/device Alarm . . . . . Red Led blinking

### Front panel pushbuttons

HEAT-COOL / +T / -T / Fan-Coil speed / ON-OFF

### Temperature

Operating . . . . . 0°C a +50°C (32°F a 104°F)  
 Storage . . . . . -20°C a +85°C (-4°F a +185°F)

### Humidity (no condensing)

Operating . . . . . 10% a 90% RH a 50°C  
 Storage . . . . . 95% RH a 50°C

### Installation

Type installation . . . . . Flush walls mounting  
 Flush mount back box . . . . . Bticino 504 E  
 Mount recommended heigh. . . . . 1,5mts from floor

### Characteristics

Dimensions (with frame) . . . . . 143x63x39 mm  
 Weight . . . . . 250 gr.  
 Plug-In connectors . . . . . YES  
 Conductor cross sectional area . . . . . 0,5 mm<sup>2</sup> a 2,5 mm<sup>2</sup>  
 Protection index . . . . . IP20 (EN 60529:1991)  
 Electrical safety . . . . . Class III

### Applicable product standard

General requirements of electrical systems for household (HBES) and automation and control systems for buildings (BACS) . . . . . EN 50491-3:2009

### CE Conformity

Low Voltage Directive (LVD) . . . . . 2006/95/EC  
 Electromagnetic Compatibility Directive . . . . . 2004/108/EC

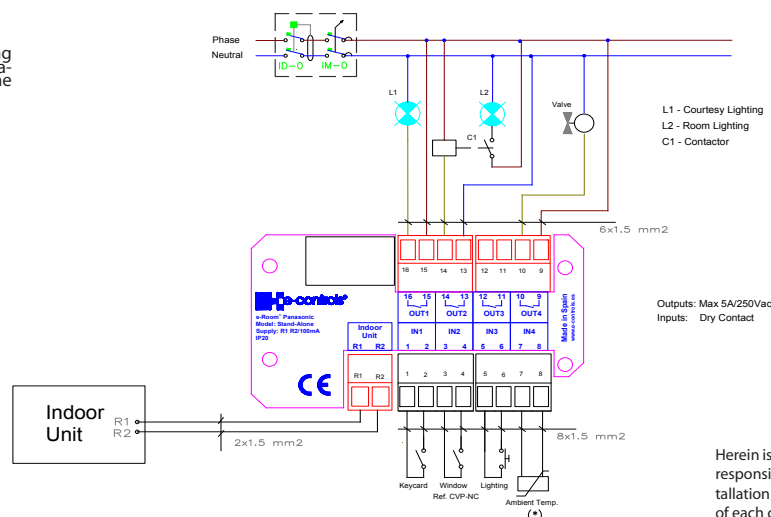
### Standards

Electrical safety . . . . . EN 50491-3:2009  
 EN 50491-4-1:2012  
 Electromagnetic Compatibility . . . . . EN 50491-5-1:2010  
 EN 50491-5-2:2010

## Wiring Diagram

### Option 1

See installation wiring diagrams to see configuration options 2, 3, 4 for the device.



## Product references

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

## Related Documents

Configuration Manual . . . . . DMCCN Operating Manual . . . . . DMFEN  
 User Manual . . . . . DMUEN Wiring Diagrams . . . . . DEC

The package of this product is considered as industrial packaging; intended for professional use only.  
 The manufacturer is not responsible of the incorrect installation or use of the products. Specifications are subject to change without notice.

