

# ED-RU...

Room units intended for temperature control.



The ED-RU... is a range of external room units intended for temperature control via a controller running an application. They can also be used together with Regin's system controllers.

- ✓ A variation of units with different features
- ✓ Built-in room sensor
- ✓ Range up to 300 m
- ✓ Design suitable for all environments

## Application

The ED-RU range enables temperature adjustments, for example of air handling units. They can be used together with a Regin system controller, where the setup must be done with Regin's tool for free programmable controllers.

Perform basic controller configuration, or let the person in the room control the room's HVAC behaviour, via a connected ED-RU... room unit. Choose from a large selection of room units that fit your specific needs.

## Function

Depending on which features one prefers for the handling of the unit, there is a number of different options such as CO<sub>2</sub> control, backlit touch display, 3-step fan control, setpoint knob etc. All units have a built-in temperature sensor.

All the specific features are specified under the section *Models and functions*

## Installation

Based on the used controller the product can be installed with one of two options:

1. The room unit can be connected to the same supply voltage as the controller. Communication then takes place via EXOline and is connected to the serial ports (RS485), A and B.
2. The unit can also be connected via an EDSP-K3 cable to the display port.

## Technical data

<b>Supply voltage</b>	18...30 V AC, 50 / 60 Hz
<b>Power consumption</b>	25 mA
<b>Protection class</b>	IP20
<b>Ambient humidity</b>	Max. 90% RH (non-condensing)
<b>Ambient temperature</b>	0...50°C
<b>Storage temperature</b>	-20...+70°C
<b>Mounting</b>	Room

## Technical data, built-in temperature sensor

<b>Temperature sensor</b>	NTC type
<b>Temperature range</b>	0...50°C
<b>Accuracy</b>	±0.5°C at 15...30°

## Technical data, built-in CO<sub>2</sub> sensor (ED-RU-DOCS only)

<b>Temperature dependence</b>	5ppm per °C or 0.5 % of the reading per °C (whichever is greater)
<b>Long term stability</b>	< 2 % of FS over life of sensor (15 years typical)
<b>Response time</b>	< 3 min. for 90 % step change typical
<b>Warm-up time</b>	<2 min. (operational), 10 min. (maximum accuracy)
<b>Measuring principle</b>	NDIR (Non-Dispersive Infrared Technology)
<b>Measuring range CO<sub>2</sub></b>	0...5000 ppm
<b>Accuracy</b>	400...5000 ppm ±25 ppm ± 3 % of the reading
<b>Signal update</b>	Every 5 seconds



This product carries the CE-mark. More information is available at [www.regincontrols.com](http://www.regincontrols.com).

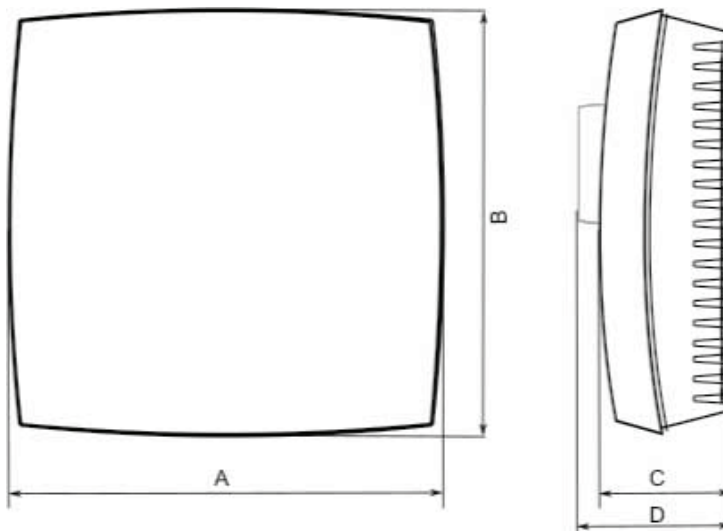
## Material

<b>Material, housing</b>	Polycarbonate, PC
<b>Colour</b>	Signal white RAL 9003

## Models and functions

Article	Occupancy button	3-step fan control	Built-in CO <sub>2</sub> sensor	Setpoint knob	Multi-function button	Hidden setpoint	Display
ED-RU	-	-	-	Y	-	-	-
ED-RU-O	Y	-	-	Y	-	-	-
ED-RU-F	-	Y	-	Y	-	-	-
ED-RU-FO	Y	Y	-	Y	-	-	-
ED-RU-DO	Y	-	-	-	-	-	Y
ED-RU-DFO	Y	Y	-	-	-	-	Y
ED-RU-DOS	Y	-	-	-	Y	-	Y
ED-RU-H	-	-	-	-	-	Y	-
ED-RU-DOCS	Y	-	Y	-	-	-	Y

## Dimensions



Model	A	B	C	D
ED-RU	95	95	-	31
ED-RU-O	95	95	-	31
ED-RU-F	95	95	-	31
ED-RU-FO	95	95	-	31
ED-RU-DO	95	95	28	-
ED-RU-DFO	95	95	28	-
ED-RU-DOS	95	95	28	-
ED-RU-H	95	95	28	-
ED-RU-DOCS	95	95	38	-

[mm]

## Documentation

All documentation can be downloaded from [www.regincontrols.com](http://www.regincontrols.com).