



## RU-FO

Room unit with fan switch and forced ventilation for use with RCP

*RU-FO is a room unit intended for use together with Regio Maxi controllers.*

- ✓ Simple installation
- ✓ Built-in temperature sensor
- ✓ Cable for connection between the room unit and the RCP controller is available as accessory

### Function

RU-FO is a room unit from the Regio series. It has a switch for controlling a three-speed fan (fan coil). It should be connected to one of the Regio Maxi controllers RCP100F, RCP100FT, RCP200F or RCP200FT.

### Regio

Regio is a wide series of controllers which handle heating and cooling.

The controllers are divided into three different series, Mini, Midi and Maxi. Mini are pre-programmed, stand-alone controllers. The Midi controllers are pre-programmed with communication. The Maxi group, to which RU-FO belongs, consists of freely programmable controllers with communication.

### Applications

The Regio controllers are suitable in buildings where you want optimal comfort and low energy consumption, for example offices, schools, shopping centres, airports, hotels and hospitals etc.

### Sensor

The room unit has a built-in sensor.

### Easy to install

The modular design with a separate bottom plate for wiring makes the whole Regio series easy to install and commission. The bottom plate can be put into place before the electronics are installed. Mounting is directly on the wall or on an electrical connection box.

### Connection to RCP

The room unit is connected to the RCP-unit with an RJ12-cable, max length 30 m. Regin has two cables as accessories, RU-CBL3 (length 3 m) and RU-CBL10 (length 10 m).

## The Occupancy button

If you press the Occupancy button for less than 5 seconds when the controller is in the preset operating mode, the controller changes to operating mode Bypass. If you press the button for less than 5 seconds when the controller is in Bypass, it changes operating mode to the preset operating mode.

When the Occupancy button is held depressed for more than 5 seconds, the controller changes operating mode to Unoccupied, regardless of the current operating mode. If you press the Occupancy button for less than 5 seconds in Unoccupied, the controller returns to Bypass.



## Forced ventilation

Regio has a built-in function for forced ventilation. A short press on the Occupancy button activates the output that has been configured for forced ventilation, for example for a damper.

## Setpoint

In Occupied mode, the controller operates from a heating setpoint (FS=22°C) or a cooling setpoint (FS=24°C) that can be changed centrally or locally using the dipswitches on RU-FO.

The setpoint can be adjusted up and down (FS=±3°C) with the knob on the front of the room unit. Switching between heating and cooling setpoints is done automatically in the controller depending on the heating and cooling requirement.

## Indications

The room unit has an LED shaped like a thermometer on the front. A red indication is shown when heating control is functional and a blue indication when cooling control is active. No LED indication shows that neither heating nor cooling control is active.



## Fan control

RU-FO has a fan switch with the following positions:

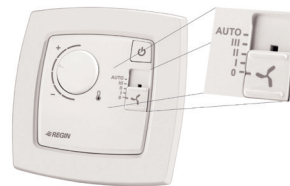
**Auto** Automatic control of the fan speed to maintain desired room temperature.

**0** Fan off.

**I** Manual position with low speed.

**II** Manual position with medium speed.

**III** Manual position with high speed.



In operating modes Off and Unoccupied, the fan is stopped, regardless of the position of the fan switch.

## Technical data

<b>Supply voltage</b>	Fed from RCP
<b>Ambient temperature</b>	0...50°C
<b>Storage temperature</b>	-20...+70°C
<b>Ambient humidity</b>	Max 90 % RH
<b>Protection class</b>	IP20
<b>Communication</b>	Same as RCP
<b>Built-in temperature sensor</b>	NTC type, measuring range 0...50°C, accuracy $\pm 0.5^\circ\text{C}$ at 15...30°C
<b>Material, casing</b>	Polycarbonate, PC
<b>Weight</b>	110g
<b>Colour</b>	Signal white RAL 9003

## Cables

<b>Cable for connection between RU and RCP</b>	Type RJ12, max length 30 m
<b>Cables that can be ordered from Regin</b>	RU-CBL3 (length 3 m) RU-CBL10 (length 10 m)

## CE

This product carries the CE mark. For more information, see [www.regincontrols.com](http://www.regincontrols.com).

## Inputs and outputs

<b>In RCP</b>	
<b>Terminal blocks in RCP</b>	So-called lift type for cable cross-section 2.1 mm <sup>2</sup>

## Setpoint settings via Regio tool<sup>®</sup>

<b>Basic heating setpoint</b>	5...40°C
<b>Basic cooling setpoint</b>	5...50°C
<b>Setpoint displacement</b>	$\pm 0...10^\circ\text{C}$ (FI= $\pm 3^\circ\text{C}$ )

Basic heating setpoint, set via DIP switches.

The ON-position is marked on the DIP switch. The cooling setpoint is 2°C higher.

Basic setpoint, heating (°C)	SW1	SW2
20	OFF	OFF
22 (FI)	OFF	ON
24	ON	OFF
26	ON	ON

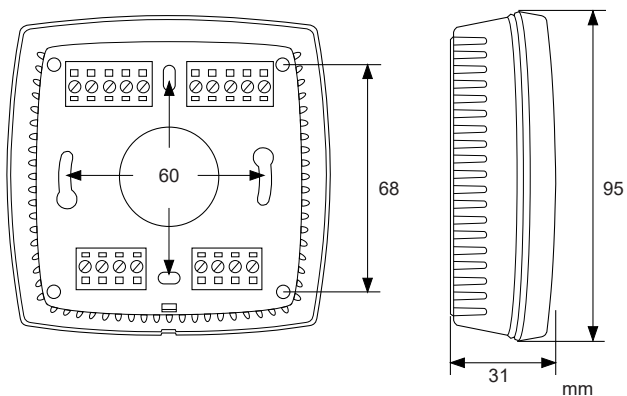
## Other DIP switches

	ON	OFF	Comment
<b>SW3</b>	Stand-by	Occupied (FS)	Preset operating mode
<b>SW4</b>	-	-	Not used

## Wiring

Terminal	Designation	Function
10-33		No function
40	+5 V	+5 V supply voltage from RCP
41	N (0 V)	0 V supply voltage from RCP
42	A	RU-Bus A
43	B	RU-Bus B

## Dimensions



## Product documentation

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