

CHAPTER 3



Room controllers/thermostats

Regin offers a wide range of electro-mechanical and electronic thermostats for wall or wallbox mounting. In this chapter you will also find our controllers for room control, which cover all your needs. Our popular Regio range includes various models, from simple stand-alone controllers for control of heating or cooling in a room to advanced freely programmable models.

Regio
 Fancoil controllers/thermostats
 Room Controllers
 Electromechanical thermostats
 Floorigo
 Electronic thermostats

Regio – The ultimate zone control system

The Regio line represents a range of room controllers which can handle a great variety of applications, such as heating, cooling and ventilation, lighting, humidity, CO₂, fans or blinds. With a Regio controller the user can create anything from stand-alone systems for managing the functions in one room, to large, integrated systems with a SCADA-system.

Regio Maxi/RCP

Freely programmable or with pre-loaded program.

Freely programmable room controllers with communication. Can be integrated with LON, Modbus or EXoline (TCP/IP or RS485). Web systems for remote reading and control. The room controllers are pre-programmed on delivery and can then be configured with our software Regio tool©

Regio Midi

Pre-programmed with communication

Pre-programmed room controllers that can be integrated with a central SCADA system via a bus line using EXoline or Modbus communication. The room controllers are pre-programmed and can be configured with our software Regio tool©

Regio Mini

Pre-programmed

Pre-programmed room controllers for stand-alone control for heating and cooling in a zone or room.

Regio tool©

Software for Regio Midi and Maxi

With Regio tool© software and a PC you can easily configure and adjust the default settings for Midi and Maxi room controllers. You can prepare the settings in your office and then on site load them into the room controllers.

In the same easy way you copy settings from one controller and download them into another. For service and error detection purposes, you can connect the PC to a room controller and get a clear overview of the settings and status.

Prize-winning design

Regio has received the 2007 International Forum Award for outstanding design. It has the modern and subtle elegance that enhances many environments.



Regio tool©



Regio Maxi

Freely programmable with communication and web interface



Regio Midi

Pre-programmed with built-in communication



Regio Mini

The smart solution for stand-alone control

Regio Mini pre-programmed room controllers



Regio Mini is a series of stand-alone controllers designed for control of heating and cooling in a single zone or a room.

The control units are pre-programmed and can be configured for a specific application by using the display and switches (although, in most cases, the default settings can be applied).

The control units have built-in temperature sensors. An external temperature sensor can also be connected.

For controlling 230 V AC fan motors, a specific relay box (RB-3 or X1178) can be used together with Regio Midi RC-F... types.

Technical data	
Supply voltage	18...30 V AC, 50...60 Hz
Power consumption	2.5 VA
Ambient temperature	0...50°C
Storage temperature	-20...+70°C
Built in temperature sensor	0...50°C NTC linearised 15 kOhm
Accuracy	+/-0.5°C at 15...30°C
Mounting	Wall-mounting
Protection class	IP20
Inputs	
Analogue inputs, AI	PT1000, 0...50°C
Condence input (CI)	NTC, Condensation sensor type KG-A
Digital inputs, DI	Closing potential free contact
Universal input, UI	Same as AI PT1000 sensor, 0...100°C or digital inputs (DI) above
Outputs	
Digital output (DO)	24 V AC, max 0.5 A
Universal output (UO)	Same as digital output (DO), 24 V AC, max 2.0 A or as analogue output (AO) 0...10 V AC, max 5 mA
+C power output for DI only	24 V DC, max 10 mA, short circuit protected

Controllers Heating and Cooling



RC-DO Room controller Display, Occupancy
RC-O Room controller Occupancy
RC Room controller
RC-H Room controller Hidden Set-point

Controllers Fan Coil



RC-DFO Room controller Display, Fan control, Occupancy
RC-F Room controller Fan control
RC-FO Room controller Fan control, Occupancy



RC

Product overview Regio Mini

RC is the basic model in the range and can be combined in various ways. The letters in the product name stand for the following functions:



RC-O

C = With communication, EXOline or ModBus

D = With display

F = With three speed fan control

H = With hidden set-point

O = With occupancy button

T = With three-point output



RC-H

Number of I/O:s

	RC	RC-O	RC-H	RC-DO	RC-F	RC-FO	RC-DFO	RC-T	RC-TO	RC-DTO
AI	1	1	1	1	1	1	1	1	1	1
DI	2	2	2	2	2	2	2	2	2	2
UI	1	1	1	1	1	1	1	1	1	1
DO	1	1	1	1	4	4	4	5	5	5
UO	2	2	2	2	2	2	2	-	-	-
Total	7	7	7	7	10	10	10	9	9	9



RC-DO



RC-F

Models with 0...10V DC or on/off output (without communication)

Type	Display	Occupancy button forced ventilation	Fan control	Setpoint knob	Hidden set-point	Notes
RC	-	-	-	Yes	-	
RC-O	-	Yes	-	Yes	-	
RC-H	-	-	-	-	Yes	
RC-DO	Yes	Yes	-	-	-	
RC-F	-	-	Yes	Yes	-	
RC-FO	-	Yes	Yes	Yes	-	
RC-DFO	Yes	Yes	Yes	-	-	



RC-FO



RC-DFO

Models with three-point output (without communication)

Type	Display	Occupancy button forced ventilation	Fan control	Setpoint knob	Hidden set-point	Notes
RC-T	-	-	-	Yes	-	
RC-TO	-	Yes	-	Yes	-	
RC-DTO	Yes	Yes	-	-	-	



RC-T



RC-TO



RC-DTO

Regio accessories

Relay unit for Regio RC-F... controllers in fan coil applications



Technical data	
Output	Three 230 V AC, 4 A closing relays
Input	From RC-F... unit
Mounting	DIN-rail mounting
Protection class	IP00

Description	Type	Notes
Relay unit for RC-F...	RB-3	

Power interface for Regio RC-F... controllers in fan coil applications

Description	Type	Notes
Power interface for Regio RC-F... controllers	X1178	

Miscellaneous



Description	Type	Notes
Condensation sensor	KG-A	
Connector plates for RC-room units, a set of 10 units	RC-conn:10	