



## Regio Midi – Pre-programmed room controllers with communication

Regio Midi are controllers with a built-in sensor and an RS485 communication port. Controllers in different rooms can be connected to a bus line enabling communication with a central SCADA system via RS485 (EXOline, BACnet or Modbus).

### Regio tool®

The room controllers are pre-programmed and can be configured to suit specific needs with the software Regio tool®, downloadable free of charge from [www.regincontrols.com](http://www.regincontrols.com).

### Product overview, Regio Midi

RC-C is the basic model in the range. The other models have various functions, indicated by the letters in the product name:

C = Communication, D = Display, F = Fan control button, H = Hidden setpoint, O = Occupancy button, T = 3-point output, C (at the end) = CO<sub>2</sub> input, 3 = Three universal outputs



RC-C3H,  
RC-CTH



RC-C3,  
RC-CT



RC-C3O,  
RC-CTO



RC-C3DOC,  
RC-CDTO



RC-CF



RC-CFO



RC-CDFO

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
Ambient humidity	Max. 90 % RH
Communication	RS485 (EXOline or Modbus with automatic detection/change-over, or BACnet)
Modbus	8 bits, 1 or 2 stop bits. Odd, even (FS) or no parity.
Communication speed	9600, 19200, 38400 bps (EXOline, Modbus and BACnet) or 76800 bps (BACnet only)
Built-in temperature sensor	0...50°C NTC linearised 15 kΩ
Accuracy	±0.5°C at 15...30°C
Mounting	Wall
Protection class	IP20
Inputs	
Analogue inputs (AI)	PT1000, 0...50°C, 0...10 V (CO <sub>2</sub> )
Condensation input (CI)	Input for Regin's condensation detector KG-A/1
Digital inputs (DI)	Closing potential-free contact
Universal inputs (UI)	Analogue input (AI), PT1000 sensor, 0...100°C or digital input (DI)
Outputs	
Digital outputs (DO)	24 V AC, max. 0.5 A
Universal outputs (UO)	Digital output (DO) 24 V AC, max. 2.0 A or analogue output (AO), 0...10 V DC, max. 5 mA
+C power output for DI only	24 V DC, max. 10 mA, short circuit-protected

## Inputs/outputs (I/Os)

Article	AI	DI	UI	Display	UO	Total number of I/Os
RC-C3	1	2	1	-	3	7
RC-C3H	1	2	1	-	3	7
RC-C3O	1	2	1	-	3	7
RC-C3DOC	2	2	-	X	3	7
RC-CF	1	2	1	-	2	10
RC-CFO	1	2	1	-	2	10
RC-CDFO	1	2	1	X	2	10
RC-C3DFOC	2	2	-	X	3	7
RC-CT	1	2	1	-	-	9
RC-CTH	1	2	1	-	-	9
RC-CTO	1	2	1	-	-	9
RC-CDTO	1	2	1	X	-	9

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## Model overview

Article	Display	Occupancy button / Forced ventilation	3-step fan control	EC fan control	Setpoint knob	Hidden setpoint	Output	3 universal outputs
RC-C3	-	-	-	X	X	-	0...10 V DC or on/off	X
RC-C3H	-	-	-	X	-	X	0...10 V DC or on/off	X
RC-C3O	-	X	-	X	X	-	0...10 V DC or on/off	X
RC-C3DOC	X	X	-	X	-	-	0...10 V DC or on/off	X
RC-CF	-	-	X	-	X	-	0...10 V DC or on/off	-
RC-CFO	-	X	X	-	X	-	0...10 V DC or on/off	-
RC-CDFO	X	X	X	-	-	-	0...10 V DC or on/off	-
RC-C3DFOC	X	X	X	X	-	-	0...10 V DC or on/off	X
RC-CT	-	-	-	-	X	-	3-point	-
RC-CTH	-	-	-	-	-	X	3-point	-
RC-CTO	-	X	-	-	X	-	3-point	-
RC-CDTO	X	X	-	-	-	-	3-point	-

 RC-CT, RC-CTH and RC-CTO are non-stock items.

## Regio accessories

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



Technical data	
Outputs	Three closing relays, 230 V AC, 4 A
Inputs	Three inputs, 24 V AC, from an RC-...F... unit
Mounting	DIN-rail
Protection class	IP00

Article	Description
RB3	Relay unit for RC-...F... controllers



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

Article	Description
X1178	Power interface for RC-...F... controllers



### Service adapter

Article	Description
RC-TEST	Service adapter for Regio Midi units



### Condensation detector

Article	Description
KG-A/1	Condensation detector for Regio controllers, 1 m cable length



### Connector plates

Article	Description
RC-CONN:10	A set of 10 connector plates for RC units