



RC-C3, RC-CT

Regio Midi – Pre-programmed room controllers with communication

Regio Midi are controllers with a built-in temperature sensor and an RS485 communication port. Some models are available with CO₂ sensors. Controllers in different rooms and zones can be connected to a bus line enabling communication with a central SCADA system via RS485 (EXOline, BACnet or Modbus).

RC-CD*, RC-C3D* and RCC are BTL listed. All Regio Midi with display are listed at www.bacnetinternational.net

RC-C3H,
RC-CTH,
RCC-C3HCS

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.

RC-C30,
RC-CTO

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) = CO₂ input, 3 = Three universal outputs, S = Single beam CO₂ sensor

RC-C3DOC,
RC-CDTO,
RCC-C3DOCS

RC-CF



RC-CDOC



RC-CFO

RC-CDFO,
RC-C3DFOC

RC-C3DOC-BLACK

Technical data	
Supply voltage	24 V AC (18...30 V AC)
Power consumption	< 3 VA
Ambient temperature	0...50 °C °C
Storage temperature	-20...+70 °C
Ambient humidity	Max. 90 % RH (non-condensing)
Communication	RS485 (EXOline or Modbus with automatic detection/change-over, or BACnet). Note: BACnet communication is only an option for models with display.
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
Measuring range, temperature	0...50 °C
Built-in CO ₂ sensor	0...5000 ppm
Mounting	Room
Protection class	IP20
Inputs	
Analogue inputs (AI)	PT1000, 0...50°C, 0...10 V (CO ₂)
Condensation input (CI)	Digital input for condensation detector
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/O:S)

Article	AI	DI	UI	UO	DO	Total number of I/O:s	Note
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	-	3	-	7	
RC-C3DOC-BLACK	2	2	-	3	-	7	
RC-CF	1	2	1	2	4	10	
RC-CFO	1	2	1	2	4	10	
RC-CDFO	1	2	1	2	4	10	
RC-C3DFOC	2	2	-	3	-	7	
RC-CT	1	2	1	-	5	9	
RC-CTH	1	2	1	-	5	9	
RC-CTO	1	2	1	-	5	9	
RC-CDTO	1	2	1	-	5	9	
RCC-C3DOCS	2	2	-	3	-	7	
RCC-C3HCS	2	2	-	3	-	7	

MODEL OVERVIEW

Article	Occupancy button / Forced ventilation	3-step fan control	EC fan control	Set-point knob	Hidden setpoint	Output	Display	Built-in CO ₂ sensor	Connection for CO ₂ sensor	Note
RC-C3	-	-	X	X	-	0...10 V DC or on/off	-	-	-	
RC-C3H	-	-	X	-	X	0...10 V DC or on/off	-	-	-	
RC-C3O	X	-	X	X	-	0...10 V DC or on/off	-	-	-	
RC-C3DOC	X	-	X	-	-	0...10 V DC or on/off	X	-	X	
RC-C3DOC-BLACK	X	-	X	-	-	0...10 V DC or on/off	X	-	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	-	-	-	0...10 V DC or on/off	X	-	-	
RC-C3DFOC	X	-	X	-	-	0...10 V DC or on/off	X	-	X	
RC-CT	-	-	-	X	-	3-point	-	-	-	
RC-CTH	-	-	-	-	X	3-point	-	-	-	
RC-CTO	X	-	-	X	-	3-point	-	-	-	
RC-CDTO	X	-	-	-	-	3-point	X	-	-	
RCC-C3DOCS	X	-	X	-	-	0...10 V DC or on/off	X	X	X	
RCC-C3HCS	-	-	X	-	-	0...10 V DC or on/off	-	X	X	



RC-CT, RC-CTH and RC-CTO are available on request.



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	Note
RB3	Relay unit for RC-...F... controllers	



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

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



Service adapter

Article	Description	Note
RC-TEST	Service adapter for Regio Midi units	



Condensation detector

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



RC-CONN:10

Connector plates

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



RCC-CONN:10