

## Regio Midi Pre-programmed room controllers with communication



Regio Midi is a one-unit controller with built-in sensor and communication port RS485.

Controllers in different rooms can be connected to a bus line enabling communication with a central SCADA system via RS485 using EXOline or Modbus.

The room controllers are pre-programmed and can be configured with the software Regio tool© to suit specific needs. The software is free of charge and can be downloaded from our web site.

For controlling 230 V AC fan motors, a specific relay box (RB-3 or X1178) can be used together with Regio Midi RC-CF... 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
Ambient humidity	Max. 90% RH
Communication	RS485 (EXOline or Modbus) with automatic detection/change-over
Modbus	8 bits, 1 or 2 stop bits. Odd, even (FS) or no parity
Communication speed	9600 bps (not changeable)
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-CDO  
Display,  
Occupancy

RC-CO  
Occupancy

RC-C

RC-CH  
Hidden Set-point

### Controllers Fan Coil



RC-CDFO  
Display,  
Fan control,  
Occupancy

RC-CFO  
Fan control,  
Occupancy

RC-CF  
Fan control



RC-C

### Product overview Regio Midi

RC-C 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:

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-CO



RC-CH



RC-CDO



RC-CF



RC-CFO



RC-CDFO

#### Number of I/O:s

	RC-C	RC-CO	RC-CH	RC-CDO	RC-CF	RC-CFO	RC-CDFO	RC-CT	RC-CTO	RC-CDTO
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

#### Models with 0...10V DC or on/off output and with communication (EXOline, Modbus)

Type	Display	Occupancy button forced ventilation	Fan control	Setpoint knob	Hidden set-point	Notes
RC-C	-	-	-	Yes	-	
RC-CO	-	Yes	-	Yes	-	
RC-CH	-	-	-	-	Yes	
RC-CDO	Yes	Yes	-	-	-	
RC-CF	-	-	Yes	Yes	-	
RC-CFO	-	Yes	Yes	Yes	-	
RC-CDFO	Yes	Yes	Yes	-	-	

#### Models with three-point output and with communication (EXOline, Modbus)

Type	Display	Occupancy button forced ventilation	Fan control	Setpoint knob	Hidden set-point	Notes
RC-CT	-	-	-	Yes	-	
RC-CTO	-	Yes	-	Yes	-	
RC-CDTO	Yes	Yes	-	-	-	



RC-CT



RC-CTO



RC-CDTO