

Duct controller



A compact controller for mounting directly into a ventilation duct. The controller has a built in sensor and setpoint control. An external setpoint potentiometer can be connected if required. Can be used to control either cooling or heating. P or PI control optional. AL24A1K has an input for change-over between cooling and heating. The change-over can be activated by means of an external closing contact or a sensor mounted on the supply-water side of the heating/cooling unit.

- IP65
- Changeover function

Technical data	
Supply voltage	24 V AC, 2 VA
Output	One, 0...10 V DC
Setpoint	0...30°C
P-Band	0.5...50 K
I-time	2 min/20 min, selectable
Changeover	Input for closing contact or sensor (0...30°C)
Mounting	Duct-mounting
Protection class	IP65

Description	Type	Notes
Duct controller, 1 output 0...10 V DC	AL24A1K	

Room controllers



Room controller

AL24A1T is a room controller with one 0...10 V DC or 3-point output. The controller is primarily intended for control of heating or cooling in zone control systems. It has one input for a presence detector (occupancy control). AL24A1T also has an input for change-over, which makes it possible for the control function to switch between heating or cooling.

- 0...10V DC or 3-point output
- Occupied/unoccupied mode
- Changeover

Technical data	
Supply voltage	24 V AC, +/- 15% 50...60 Hz, 2 VA
Output	0...10 V DC, 1 mA or 3-point, 24 V AC, 1 A
Inputs	Three (3), Regin NTC-sensor
Setpoint	0...40°C
P-band	0.5...50 K
Protection class	IP20

Description	Type	Notes
Room temperature controller	AL24A1T	



Room controller

Corrigo R10-LON is intended for installations with LON-communication. The controller has PI-control with setpoint and shiftable setpoint with individual values for heating/comfort, heating/economy, cooling/comfort, cooling/economy, constant room temperature depending on running mode and dew point control. R10-LON conforms with the Chilled Ceiling Controller 8070 profile (LonMarkprofile). Moreover, R10-LON supports functions such as low temperature protection in shutdown mode, control override on open window switch, configuration of optional actuator by LON etc.

- With LON-communication
- Heating/cooling in sequence

Technical data	
Supply voltage	24 V AC +/-15%, 4 VA
Output (3 alternatives)	Two (2) 0...10 V DC, or two (2) thermal actuators, or one (1) increase/decrease (triac)
Inputs	Two (2), for presence, temperature or 0...10 V DC-sensor (Regin NTC-sensor)
Setpoint displacement	+/-3°C
Protection class	IP30

Description	Type	Notes
Room controller with LON-communication	R10-LON	



Room controller

Controllers intended for controlling damper actuators or valve actuators with three-point floating output (floating control). The controller can be used for constant air supply temperature or for room temperature control with or without cascade control.

- 230 V AC supply voltage
- Cascade control

Technical data	
Supply voltage	230 V AC
Maximum load	5 VA
Control signal (output)	Three-point (floating-control), output 24 V AC (heating or cooling)
Ambient humidity	Max 90% RH
Sensor inputs	Two inputs (main and limiting sensor) (Regin NTC-sensor)
Setpoint	0...30°C (sensor determines the scale range)
Cascade factor (CF)	1...15 °
Minimum limit (Min.)	0...30°C
Mounting	Wall-mounting°
Protection class	IP20

Description	Type	Notes
Room Controller	AQUA230T	



Room controller

Controller intended to control a valve actuator for water-heated systems. The controller is designed for wall mounting, has a built-in room sensor and can be used to control air supply temperature or room temperature with or without cascade control. The controller has built-in active frost protection with two alarm relays and automatic shutdown control.

- With frost protection
- Alarm relays

Technical data	
Supply voltage	24 V AC +/-10%
Output Max. load	One three-point floating, 24 V AC, 5 VA
Sensor inputs	Three (3) 0...30°C (sensor determines the scale range) (Regin NTC-sensor)
Setpoint Min.limitation	0...30°C
Cascade factor	1...15
Frost alarm	5°C
Shutdown mode	25°C
Alarm relays	2 A 250 V AC, breaking contact 2 A, 24 V AC, change-over contact
Mounting	Wall-mounting
Protection class	IP30

Description	Type	Notes
Room Controller with active frost protection	AQUA24TF	

Electronic thermostats

Room thermostat 1-stage



Electronic thermostat for wall mounting. Can be set for heating or cooling.
Built-in sensor and input for external sensor.

- Supply voltage 230V AC
- Maximum load 16 A

Technical data	
Supply voltage	230 V AC +/-10%, 1 VA
Output	16 A, 230 V AC change-over relay
Setpoint	0...30°C, 20...50°C
Hysteresis	1K
Sensor input	One (1), Regin NTC-sensor
Mounting	Wall-mounting
Protection class	IP30

Description	Temperature range	Type	Notes
Electronic thermostat	0...30°C	TM1-P	
Electronic thermostat	20...50°C	TM1-50	

Room thermostat 2-stage, heating, cooling



Electronic 2-stage thermostat used for control of thermal actuators. One output for cooling and one output for heating.

- Triac output

Technical data	
Supply voltage	24 V AC, 1 VA
Output	Two (2), 3 A, 24 V AC, (triac)
Setpoint	0...30°C
Hysteresis	0.3 K
Step differential	1.3 K
Sensor input	One (1), regin NTC-sensor
Indication	Red LED (heating), green LED (cooling)
Mounting	Wall-mounting
Protection class	IP30

Description	Type	Notes
Electronic thermostat, 2-stage, heating/cooling in sequence	TM2-24HC	