



Description

The RTA03 controller is designed to control fan coil heating and cooling systems. RTA03 controls the heating and / or cooling valves and fan speeds for 2- and 4-pipe fan coil. The proportional + integral (P + I) action available ensures accurate temperature control in all operating conditions.

The controller can be mounted on the wall or on the fan coil frame using the optional remote air sensor.

In 2-pipe systems it is possible to activate the summer/winter changeover by a switching contact or a sensor mounted on the pipe at the fan coil inlet.

The room sensor is located inside the controller and can be replaced by an optional remote sensor.

Available commands: setpoint adjustment knob, Comfort / Economy mode setting button, manual fan speed selector.

Technical specifications

- 2-4 pipes fan coil applications (by jumper selection)
- Proportional + integral digital controller
- 3 fan speed control by manual setting
- Possibility of thermostatic fan or continuous operation by jumper
- ON-OFF control action for actuators
- Digital input for window, presence/timing program
- Analog input for water temperature sensor, remote room temperature sensor
- Output voltage for valves 230 V AC, fan motor 230 V AC
- Power supply 230 V AC, 50/60 Hz
- CE certification



Technical characteristics

Control range	10...30°C		
Power supply	230 V AC, 50/60 Hz		
Output	On-Off 3 speed output, 230 V AC. Max 6 A		
Knob and selectors			
	Fan	1-2-3	3-position selector
	Set point	Temperature 10...30C + OFF position	knob
Analog inputs			
	Room temperature	Return air sensor (remote)	NTC10K
	Water temperature	Contact or strap-on/immersion sensor	NTC10K
Digital inputs			
		Presence / timing program	
		Window contact	
Proportional band	2 K		
Applications	2- or 4-pipe fan coil		
Housing	Single housing		
Protection degree	IP30		
Working temperature	0...45°C		
Storage temperature	-10...+50°C		
Working range RH	20...80% RH (non-condensing air)		



Input and outputs

Ingressi digitali

Presence or Timing program:

The open contact indicates the presence in the room (occupied room) and activates the Comfort mode set point.

Window:

The open contact indicates the closed window and normal operation. The closing of the contact indicates the opening of the window and the transition to frost protection operation. This causes valve closure and fan stop. The frost protection activates a room set point of 4°C.

Analog inputs

Air temperature sensor

This sensor, normally placed on the fancoil return air, has priority over the controller's internal sensor.

Water temperature sensor

Summer/winter changeover: The sensor detects the water temperature of the fan coil. If the water temperature drops below 16°C, summer operation is activated. If the water temperature rises above 35°C, winter operation is activated.

It is also possible to connect to the same input a contact for summer/winter switching. The closed contact indicates the presence of hot water in the pipes. This causes the switch to winter operation.

If the water temperature is maintained between the values set above, the controller switches to OFF and starts the frost protection.

The same sensor also works as a minimum fan operating temperature as well.

Digital and analog outputs

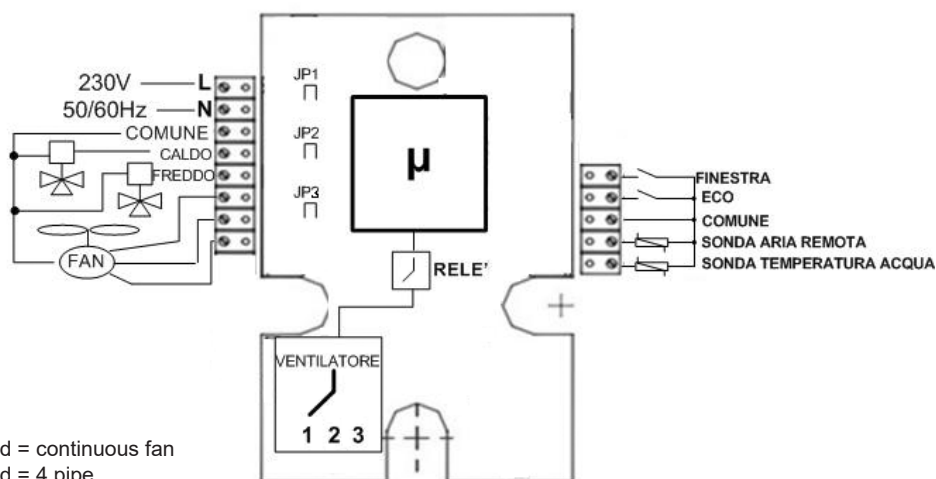
Fan:

3 speed manual fan control. Output 230 V AC, 50 Hz max 6 A.

Valve actuator heat/cool:

Output for 4 ON-OFF actuators at 230 V AC, 0,8 A

Electrical wiring



Dimensions

