

Temperature controller
RTS-1-400
RTSD-1-400



Application

- Temperature control in ventilation, heating and air conditioning systems.
- Compatible with fans and fan coil valves, air heating units equipped with three-speed 230 V fans.
- Automatic control of heating/cooling capacity.

Design and control

- Plastic casing with a built-in temperature sensor.
- The front panel incorporates an integrated LCD display and control buttons.
- The display shows current and set indoor air temperature, set speed and a selected operation mode. The temperature controller may be set for cooling, heating or auto mode.
- The fan speed is set manually by pressing the control buttons.
- Automatic control of low/medium/high speed, depending on indoor air temperature.

- Due to illuminated LCD display the temperature controller is suitable for use in bad light conditions.
- Temperature control accuracy up to 1 °C.
- Saving of user setting saving in case of power outage.
- RTS-1-400 is available with a remote control.
- Night operation mode. For details, refer to the night operation mode diagram.

Mounting

- The temperature controller is designed for indoor wall flush mounting.
- The recommended installation height is 1.5 m above the floor level.
- The installation place must not be close to windows, doors and heating or cooling equipment.
- Wall flush mounting in the junction box MKV-1 (available upon separate order).

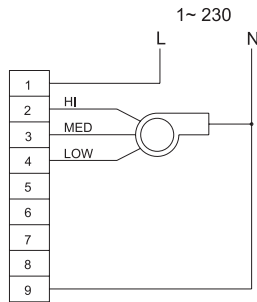
Technical data

	RTS-1-400	RTSD-1-400
Voltage [V] at 50 Hz	1~230	1~230
Rated current [A]	2,0	2,0
Number of speeds	3	3
Temperature range °C	+10...+30	+10...+30
Overall dimensions LxBxH [mm]	88x88x51	88x88x51
Maximum ambient temperature [°C]	40	40
Protection	IP40	IP40
Remote control	no	yes

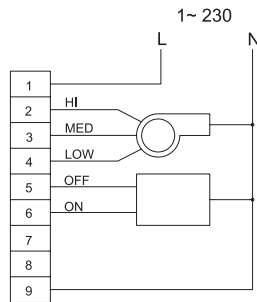
Night mode operation

- **Operation in heating mode:** 30 minutes after activation of the night mode the indoor air temperature drops by 1 °C and by one more 1 °C in the next hour. In the next hour the air temperature drops by 1 °C more and remains constant for the next 5 hours. After turning the timer off the air temperature reaches the initial value.
- **Operation in cooling mode:** 30 minutes after activation of the night mode the indoor air temperature increases by 1 °C and by one more 1 °C in the next hour and remains constant for the next 6 hours. After turning the timer off the air temperature drops down to the initial value.

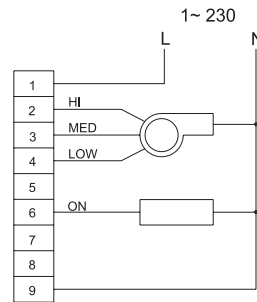
Temperature controller wiring options



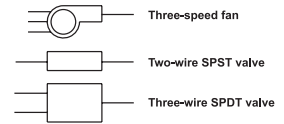
Ventilation with heating and cooling



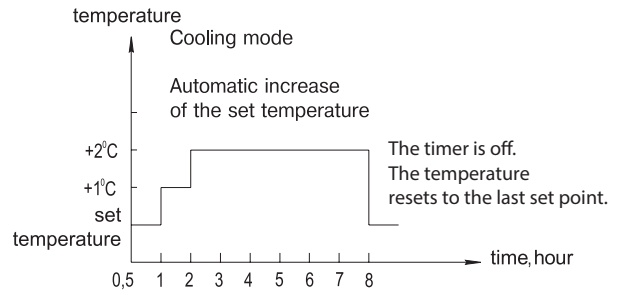
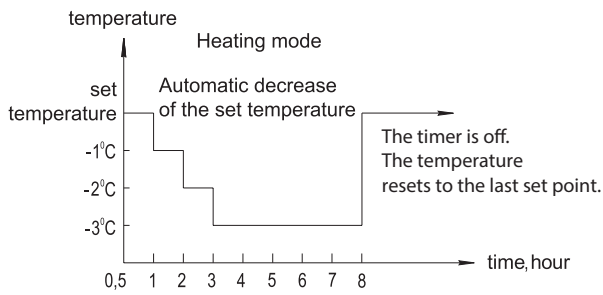
Ventilation with heating and cooling
Three-wire SPDT valve system



Ventilation with heating and cooling
Two-wire SPST valve system



Operation in night mode



JUNCTION BOX FOR WALL FLUSH MOUNTING



MKV-1