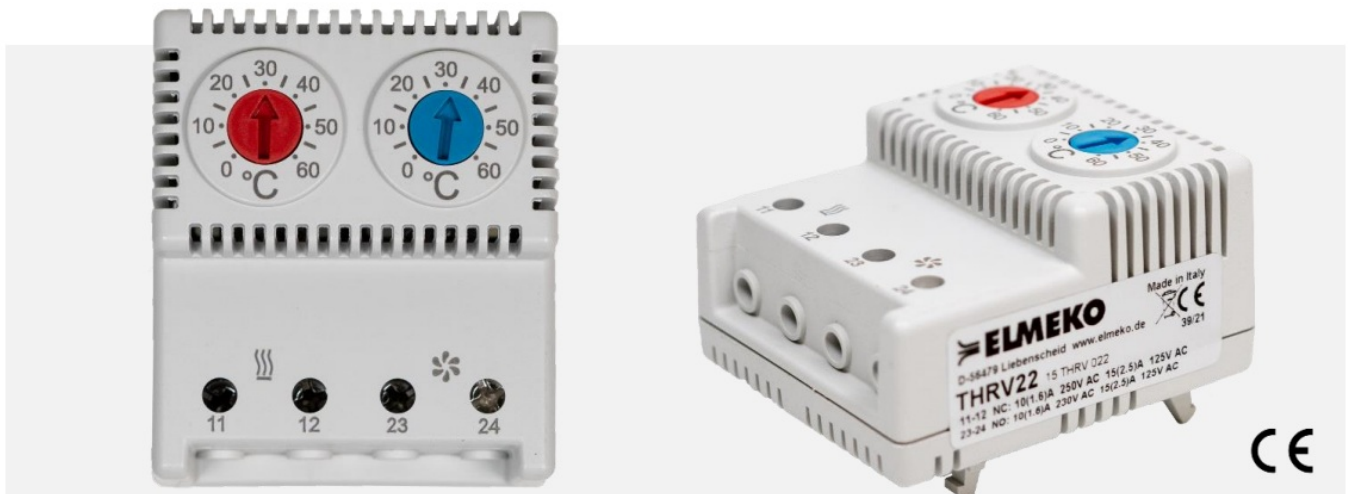




ELMEKO THRV 22 Double-Thermostat Owner's Manual

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THR V 22 DOUBLE TEMPERATURE CONTROLLER

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APPLICATION

This double thermostat monitors the temperature in the switching cabinet. It was specially developed to control the combination of fan and heater. It is two independently switching thermostats with a high switching capacity in a compact housing.

FEATURES

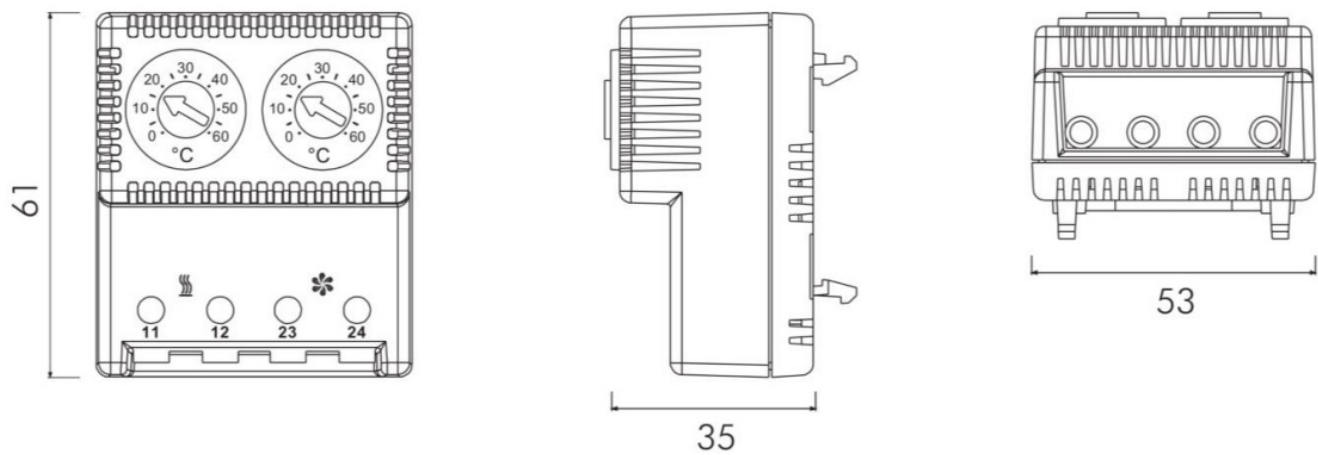
- Temperature controller for fan and heater
- 1x NC contact at rising temperature to control the heater
- 1x NO contact at rising temperature for regulation of the fan
- High power capacity
- Adjustable temperature 0 – 60 °C
- Mounting on DIN rail
- 10 A switching capacity at 250 V AC

TECHNICAL DATA

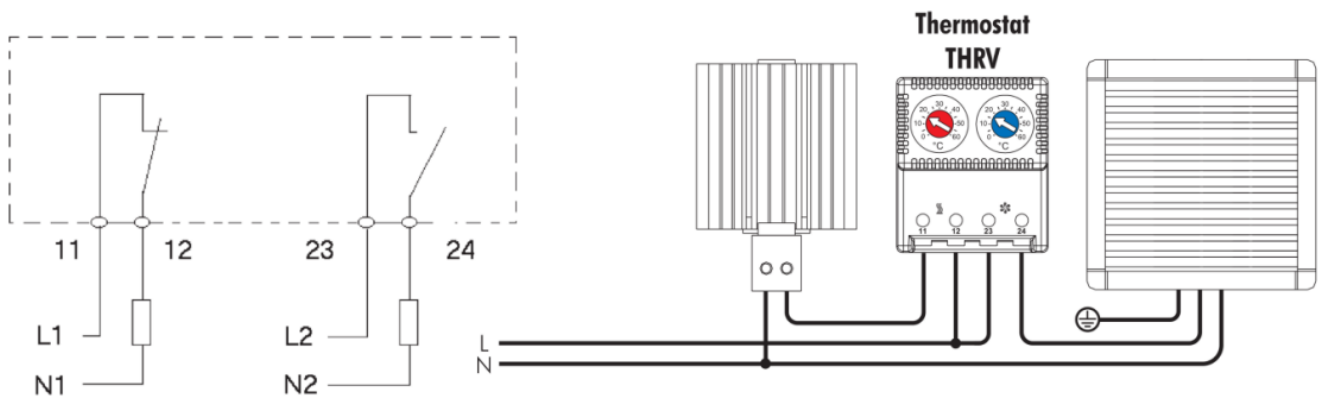
Type	THRV 22
Part number	15 THRV 022
Perm. operating voltage	12 V DC– 48 V DC 125 V AC – 250 V AC
Output switch contact	1x NC; 1x NO
Sensor switching system	Bimetall intern
Switching contact resistance	< 10 mOHM
Switching difference (hysteresis)	7 K
Switching precision	± 4 K
Switching capacity	max. 10 A (1,6 A*) @ 250 V AC max. 15 A (2,5 A*) @ 125 V AC
Switching power	30 W @ 48 V DC
Control range	0 °C ... +60 °C
Protection class	0
Degree of protection	IP20
Operating temperature	-25°C... +80°C
Storage temperature	-45°C... +80°C
Admissible degree of humidity	max. 95% r.h., non-condensing
Electrical connections	terminal 0,5 ... 2,5 mm ²
Housing material and colour	PA6, UL94 V0 self-extinguishing, light grey RAL 7035
Service life	> 1000.000 switching cycles
Weight	80 gr.
Way of installation	on 35 mm standard rail
Approval	CE

Inductive load

DIMENSIONED DRAWING

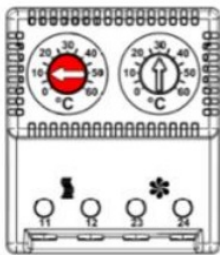
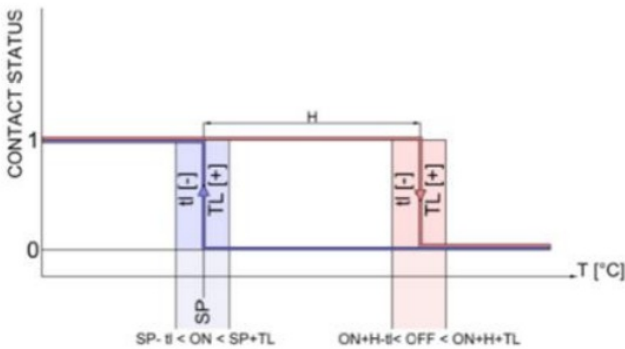


CONNECTION DIAGRAM

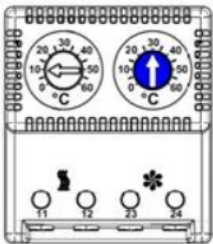
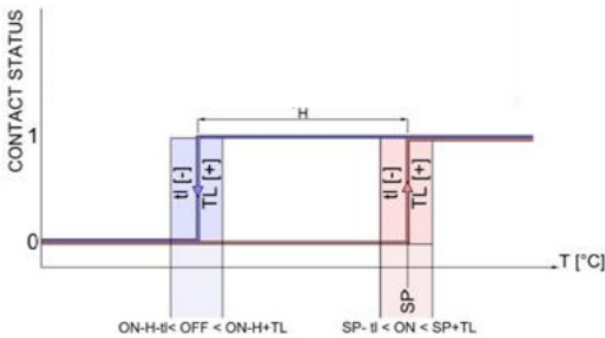


FUNCTION

Switch contact NC type



Switch contact NO type



Contact status	
SP	Set point (thermostat value set)
ON	Switching point (contact closing temperature)
ti	Negative tolerance of set point
TL	Positive tolerance of set point
H	Hysteresis
OFF	Switching point (contact opening temperature)

ACCESSORIES

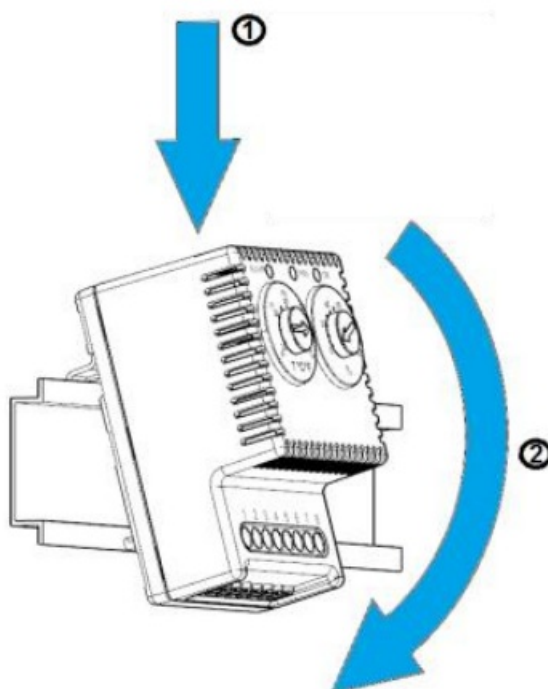
Type	Description	Part number
HAL 51	Installation set with 2 screws	 19 HAL 051

MOUNTING/INSTALLATION

The controller is mounted on a 35 mm DIN standard rail. For this purpose, the controller is hooked in with the upper hooks and then snapped onto the standard rail by pressing. To remove the controller from the standard rail, first pull it down and unhook it from the front.

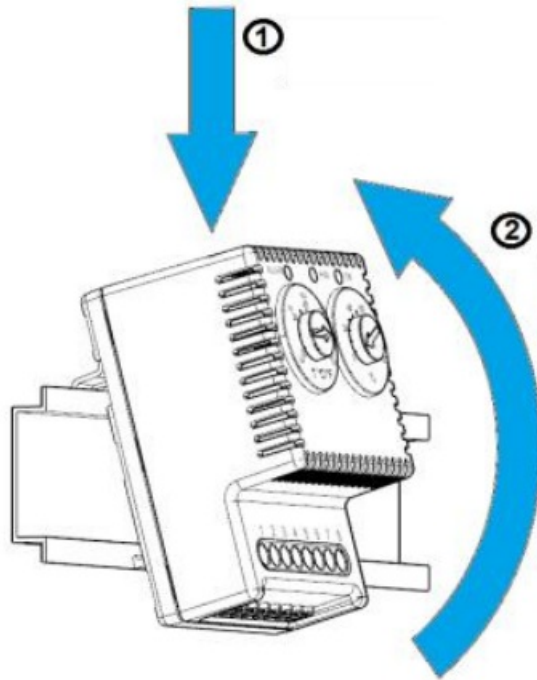
The THRV 22 has internal sensors. In order to record the actual internal temperature of the control cabinet, it must not be directly exposed to cold or heat sources, unless it is the assembly to be protected. After mounting, the controller must be wired as shown in the wiring diagram.

After installation, therefore, the correct operating direction and proper functioning of the control must be checked. The switching point is set with a slotted screwdriver.



Mounting

1. Hook up at the top
2. Snap on below



Removal

1. Pull downward
2. Unhook inclined manner

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Documents / Resources

References

-  [Elmeko - elmeko.de](http://elmeko.de)
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