

Internal Temperature Control Diagram and Instruction Manual

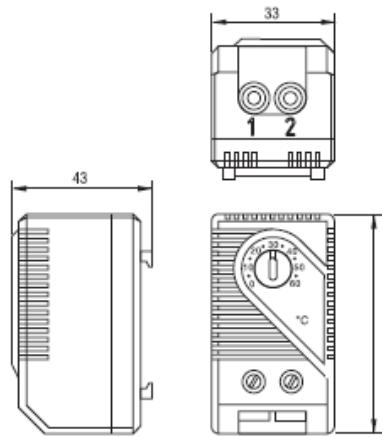


Diagram of internal temperature control unit

Applications:

The temperature control is used to regulate cooling equipment fans. In addition, they can also be used as switching contacts for signal devices used as low or high temperature alarms.

Safety considerations:

The temperature control should only be installed by qualified technicians in accordance with the respective national electrical codes. The safety and protection against incidental contact is to be ensured through proper installation. The technical specifications (voltage and current) as stated on the product must not be exceeded.

Installation guidelines:

The temperature controls are designed to measure the temperature in enclosures. When used in cooling applications, they should be installed in the upper area of the enclosure as far away as possible from heaters or other heat-generating components. When used in cooling applications, they should be installed at the bottom of the enclosure as far away as possible from the cooling device.

- Clip-mounting onto 35 mm DIN rails according to EN50022 is standard.
- The ventilation openings of the temperature control should not be covered at any time.
- Operating temperature range -20°C to 80°C (-4.00°F to 176.00°F)

Setting recommendations:

The hysteresis (switching difference) of the temperature control should be taken into account:

$$\text{Hysteresis} = 7\text{K} \pm 4\text{K} \text{ (Kelvin)}$$

Example: Required maximum temperature in enclosure: 32°C (90°F)

Hysteresis of temperature control: 11K (=7K +/- 4K)

Set point on adjustment knob: 21°C (70°F)