**Technical data**

Nominal voltage AC 24 V 50/60 Hz  
Nominal voltage range AC 19.2…28.8 V  
Power consumption 0.5 W  
For wire sizing 1.3 VA  
Connection screw terminals (2·1.5 mm²)  
Temperature sensor NTC (0…40 °C) on p.c.b. or external sensor TFK (TRP-3)  
Mode selector Automatic Night (unassigned) Continuous Ventilation (max. Yk)  
Proportional band xp 1.0 K (fixed)  
Control input k/k' k: DC 0…+10 V  k': AC 24 V  
Power consumption k/k' k: DC 0…10 V 1.5 mW (0.35 mA)  k': AC 24 V 40 mW (1.7 mA)  
Degree of protection IP 30  
Ambient temperature range 0…+40 °C operating; –20…+70 °C storage  
Ambient humidity 20…90%  
EMC CE according to 89/336 EEC and 92/31 EEC  
Weight 70 g

**Application**

The TRP temperature controller is intended for the individual control of room air temperature in heating, ventilating and air-conditioning systems (HVAC). The temperature sensor is incorporated into the controller itself, although an external sensor can be connected if required. The controller provides appropriate operating control for the modulating actuators of control dampers and air-volume controllers – primarily for pressure-sensitive control. The minimum position of the actuator can be preset in the controller. A selector switch allows the user to choose from four alternative operating modes whichever suits him best for the room. A slide-type potentiometer is provided to allow local correction of the temperature setpoint (±3 °C) according to individual needs. The controller also has an input for summer compensation and central operating control.

**Mode of operation**

The TRP controller employs a proportional characteristic with fixed, preset proportional bands. It compares the actual value with the setpoint and, if there is a discrepancy between the two, generates a continuous proportional control signal to correct it. The setting potentiometers for setpoint XK and minimum limiting B are housed inside the controller itself. By means of an external override signal (DC 0…+10 V) it is possible to shift the setpoint continuously (for summer compensation) or by one step of 10 K. This is consistent with ensuring minimum power consumption and monitoring of limit values.

**Mode selector**

Removing the housing cover gives access to the selector switch which allows the operating mode to be altered as necessary. The selector can also be disengaged completely if required.

**Dimensions**

![Dimensions diagram](image)