

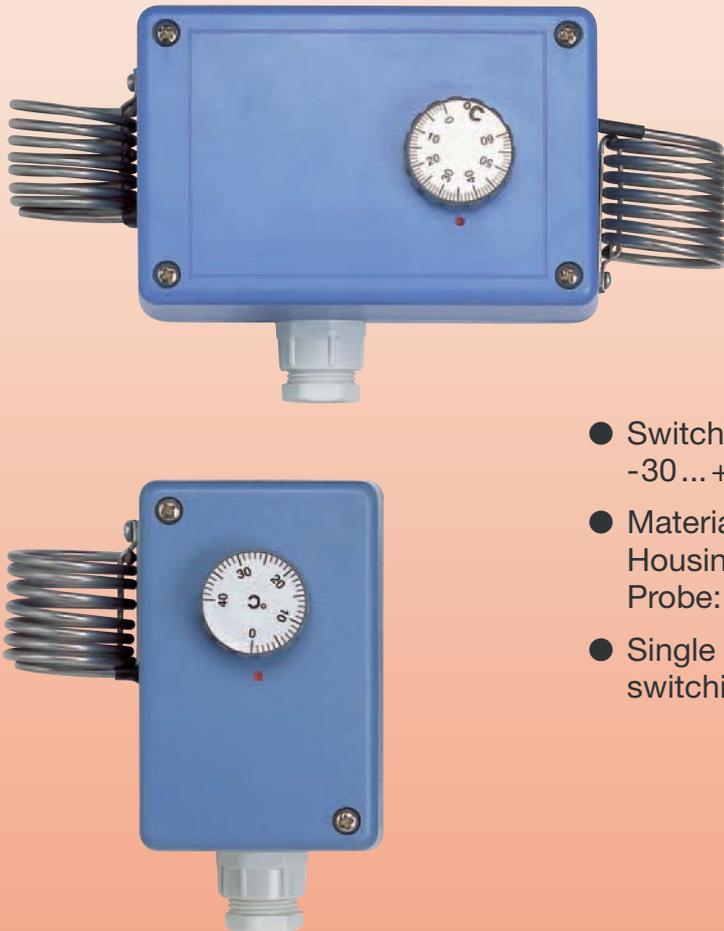


Room and Surface Thermostats

for General Applications



measuring
•
monitoring
•
analysing



- Switching range:
-30...+30 °C to +50...+120 °C
- Material:
Housing: plastic
Probe: popper or st. steel
- Single or double contact
switching



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Model:
TEA-R

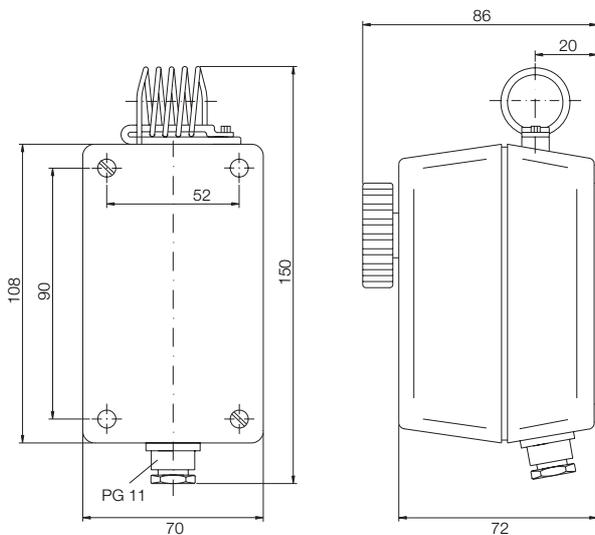
Description

The room thermostats are fitted with liquid-filled helix probes made of copper or stainless steel that act as temperature-dependant pressure probes. A change in temperature causes a pressure change in the probe, which is transferred to a switch by a bellows system or a diaphragm. A compression spring acts as a counteracting force. The switching values are set by changing the initial stress of the compression spring with a setpoint spindle.

Room thermostats with adjustable switching difference *single contact*



Dimensions



The following types are available:

- TEA-R1...: with fixed switching difference *single contact*
- TEA-R2...: with fixed switching difference *double contact*
- TEA-R3...: with adjustable switching difference *single contact*

Applications

- Monitoring and control of temperatures indoors
- Greenhouses
- Washing bays, exhibition halls, sports centres and industrial buildings.

Technical Details

Material:

- Housing: impact-resistant plastic
- Probe: copper, liquid-filled

Contact operation: single-pole, floating changeover contact, dust-tight enclosed

Hysteresis: 2 - 15 K adjustable

Switch capacity: 24 - 250 V_{AC},
15 A at 250 V_{AC}
8 A at 250 V_{AC} inductive

Protection: IP 65

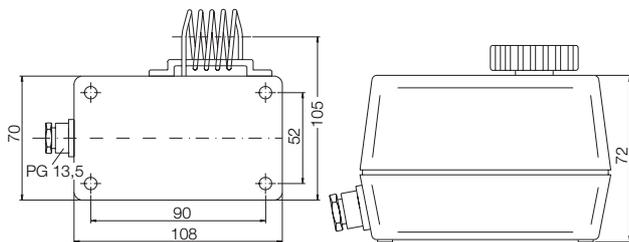
Order Details (Example: TEA-R 3133 0)

Setting range	Max. probe temperature	Hysteresis adjustable	Order number	Option
-30 to +30°C	60°C	2 - 15 K	TEA-R 3133...	..0 = without
0 to +60°C	75°C	2 - 15 K	TEA-R 3106...	..A = full internal adjustment

**Room thermostat with fixed switching difference
single contact**



Dimensions



Technical Details

- Material:
- Housing: impact-resistant plastic
 - Probe: stainless steel, 1.4404
- Contact operation: single-pole, floating changeover contact, dust-tight enclosed
- Switch capacity: 24-250 V_{AC}
16 A at 250 V_{AC}
4 A at 250 V_{AC} inductive
- Protection: IP 54

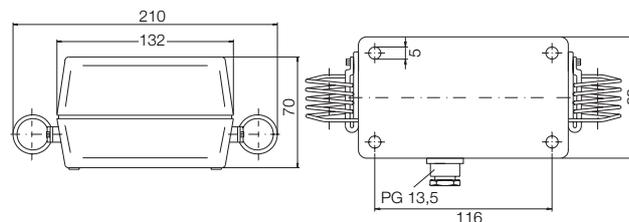
Order Details (Example: TEA-R 110 40)

Setting range	Max. probe temperature	Hysteresis	Order number
0 to +40 °C	65 °C	1 K	TEA-R 110 40
0 to +60 °C	65 °C	1.5 K	TEA-R 110 60

**Room thermostat with fixed switching difference
double contact**



Dimensions



Technical Details

- Two independent measuring systems, separately adjustable, however for safety reasons, there is only one adjustment control available on the outside.
- Material:
- Housing: impact-resistant plastic
 - Probe: stainless steel, 1.4404, liquid-filled
- Contact operation: single-pole, floating changeover contact, dust-tight enclosed
- Switch capacity: 24-250 V_{AC}
16 A at 250 V_{AC}
4 A at 250 V_{AC} inductive
- Protection: IP 54

Order Details (Example: TEA-R 210 4 0)

Setting range 1	Setting range 2	Max. probe temperature	Hysteresis	Order number	Option
0 to +40 °C	0 to +40 °C	65 °C	1 K	TEA-R 2104...	..0 = without
0 to +60 °C	0 to +60 °C	65 °C	1.5 K	TEA-R 2106...	..A = full internal adjustment

