# 2-POLE TEMPERATURE CONTROLLER

These devices automatically switch off the current in the controlled circuit as the temperature is reached, and switch it on again as the tepmerature falls below the set threshold value. The temperature of the controlled medium is thus maintained within a narrow zone.

Working tepmerature range: 0 – 400 °C

Areas of application:
- gas-powered heaters under electric control
- electric heating devices
- hot water storage tanks

Suitable for controlling two different temperatures!

Trouble-free operation is conditioned by proper heat transfer between the controller's sensor and the controlled medium.

## TECHNICAL DATA

| | | | |
|---|---|---|---|
| Lifetime: | 50.000 switching cycles | Working range: | 0-150 °C / 50-400 °C |
| Switching power: | 20(4)A-4(1)A/250 V~;<br>16(4)A-4(1)A/400 V~; | Sensor: | Tubular type: Cu: Ø5; Ø6; Ø8<br>INOX: Ø3; Ø4; Ø6 |
| Way of operation: | 2 C | Capillary tube: | Ø 1,4 (Cu) / Ø 1 (INOX) |
| Max. temp. for the main unit: | 85 °C / 150 °C | Capillary tube length: | 250-2400 |
| Protection class: | Class I. / IP 00 | Max. sensor temperature: | Upper switching value +15% |
| Operation environment: | Normal | Surface protection: | Galvanized |
| Heat and fire resistance: | D | Lenght of the shaft: | 16-50 |
| Leakage current resistance: | ≥ 175 | Electrical connections: | Blades, A 6,3x0,8 |

## TYPE-EXAMPLES

| *Type Code* | *Type mark* | *Switch-off temp. °C* | *ΔT* | *Sensor ØD x L1/mm/; Material* | *Capillary tube ØdxL2 /mm/* | *Protection tube L3 ±20 /mm/* | *Lenght of the shaft Lt /mm/* | *Wiring diagram M/A* | *Ear position F0/F90* |
|---|---|---|---|---|---|---|---|---|---|
| 5285-0-204-3 | TC-1R20PAS | P1-1 46 - 85 ± 3<br>P2-2 39 - 78 ± 3 | 4 ± 2 | 6,5 x 93 Cu | 1,4 x 1080 | 490 | 16 | A | F90 |
| 5285-0-204-6 | TC-1R20PA | 0 - 40 ± 3 | 1,5 ± 0,5 | 6 x 188 Cu | 1,4 x 920 | 850 | 16 | A | F90 |
| 5285-0-204-7 | TC-1R20PA | 7 - 55 ± 3 | 4 ± 2 | 6 x 107 Cu | 1,4 x 1080 | 830 | 20 | A | F0 |