

Pt100-Temperature-Relay Type TR250

3 Sensors Pt 100 (RTD), Pt 1000, PTC or KTY, 3 Limits

NEW: Alarm counter and preset programs for use with PTC thermistors only

TR250



Part number:

T224190 AC/DC 24-240 V

Function

- Measuring and monitoring range - 199...+850 °C
- resolution 0.1 °C selectable within range -19.9...99.9 °C
- 3 relay outputs K1 to K3 with change-over contacts
- Universal power supply AC/DC 24-240 V
- Easy setting
- Storing of values of MIN- and MAX- temperature
- **Alarm counter for 3x99 alarms with display of sensor and elapsed time.**
- Code-lock against manipulation of settings

The Pt100 thermostat TR250 monitors up to 3 sensors Pt100 (RTD), Pt1000, KTY83 KTY84 or thermistors (PTC) at the same time. Different types of sensors, e.g. Pt 100 and PTC can be monitored simultaneously.

The unit is especially suitable for monitoring motors, generators and transformers.

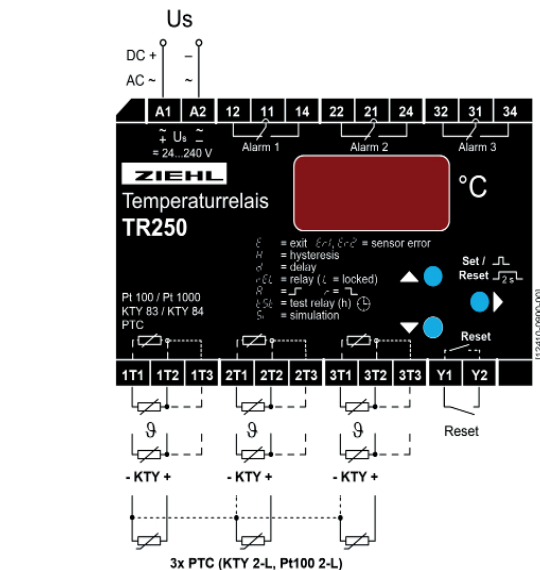
An other application is the use as a 2- or 3-step-controller with additional monitoring of over- or under-temperature. monitoring of differences in temperatures of 2 sensors or temperature controller for heat pumps.

3 Sensor-Inputs:

- Pt100/1000, 2- or 3-wire connection, KTY83, KTY84
- Thermistors (PTC) each 1...6 in series
- Monitoring of short-circuit and break

Displays:

- 3 digit 7-segment-display for temperature and programming
- 3 LEDs for sensors, for alarms/ relays
- display °C or °F selectable, resolution 0.1 °C



Switching-Functions

- 3 relays
- warmest/coldest sensor switches relay
- programmable for every relay:
 - hysteresis
 - autoreset or electronic reclosing lock
 - delay-time for switching and switching back
 - operating- or closed current-mode
 - cyclic check of function
- monitoring of difference in temperature

6 preset programs:

- motor / generator with 3x Pt 100
- transformer with 3x Pt 100
- **transformer with 2x PTC / 3x PTC**
- transformer with 2x PTC and 1x Pt 100
- 3 x 1 alarm per sensor

Technical Data

Rated supply voltage U_s

AC/DC 24-240 V (AC 20-264 V, DC 20-297 V)

Sensor connection

3 x Pt100 (DIN 43 760/IEC 751) (RTD)
3 x Pt1000, KTY83, KTY84
3 x 1...6 PTC (DIN 44080/44081)

Measuring accuracy

< 0,5 % of value ± 1 K

Sensor-current

< 1 mA

Connection

3-wire, 2-wire, line-resistance max. 2 x 50 Ω

Measuring range

-199...+850 °C

Hysteresis

-99...+99 °C

Switching delay on/off

0...99 s / 0...999 s

Type of contact

type 2 (see "general technical information")

Test conditions

3 x change-over / alarm

Rated ambient temperature range

see "general technical information"

-20 °C...+65 °C

Dimensions (h x w x d)

V4: 90 x 70 x 58 [mm], mounting height 55 mm

Protection housing / terminals

P 30 / IP 20

Weight

app. 200 g

Attachment

on 35 mm DIN rail or with screws M4