Pt100-Temperature-Relay Type TR250

Digital, 3 Sensors, 3 Limits

TR250





Function

Technical Data

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.

- 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
- Code-lock against manipulation of settings

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

Rated supply voltage Us

Sensor connection

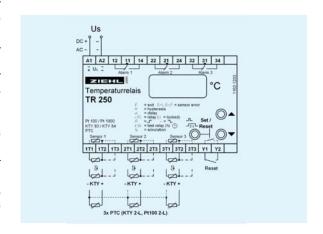
Measuring accuracy Sensor-current Connection

Measuring range Hysteresis Switching delay on/off Type of contact

Test conditions Rated ambient temperature range

Dimensions (h x w x d) Protection housing / terminals Weight Attachment

Order-number: T224190



Displays:

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

Switching-Functions

- 3 relays
- warmest/coldest sensor switches relay
- prgrammable for every relay:
 - hysteresis (+ or = MIN- or MAX-function)
 - 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
- 4 preset programms:
 - motor / generator
 - transformer with Pt 100, with PTC/Pt 100
 - 3 x 1 alarm per sensor

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

3 x Pt100 (DIN 43 760/IEC 751) (RTD) 3 x Pt1000, KTY83, KTY84

3 x 1...6 PTC (DIN 44080/44081)

< 0,5 % of value ±1 K

< 1 mA

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

-199...+850 °C -99...+99 °C 0...99 s / 0...999 s

type 2 see "general technical information"

3 x change-over / alarm

see "general technical information"

-20°C...+65°C

V4: 90 x 70 x 58 [mm], mounting height 55 mm P 30 / IP 20 app. 200 g

on 35 mm DIN rail or with screws M4