

Pt 100-temperature relay type TR 250

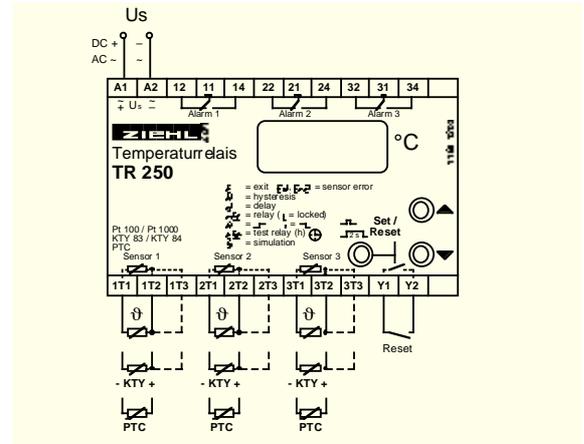
digital, 3 sensors, 3 limits

TR 250



The Pt 100 thermostat TR 250 is a temperature controller and monitors up to 3 sensors Pt 100, Pt 1000, KTY 83 KTY 84 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 or monitoring of differences in temperatures of 2 sensors.

Order-number: T 224190



Function

- Measuring and monitoring range - 199...+850°C
 - 3 relay outputs K1 to K3 with change-over contacts
 - Universal power supply AC/DC 24-240 V
 - Easy setting
 - Stored Values of MIN- and MAX- temperature can be displayed
 - Code-lock for protection against manipulation of settings
 - UL approval
- 3 Sensor-Inputs:**
- Pt 100/1000, 2- or 3-wire connection
 - KTY 83, KTY 84
 - 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
 - 3 LEDs for alarms/relays
 - °C/°F can be selected
- Switching-Functions**
- 3 relays
 - warmest/coldest sensor switches relay
 - programmable 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 programs:
 - motor / generator
 - transformer with Pt 100
 - transformer with PTC/Pt 100
 - 3 x 1 alarm per sensor
 - Option: UL-approval

Technical data

Rated supply voltage Us	AC/DC 24-240 V (AC 20-264 V, DC 20-297 V), 3 VA
Sensor connection	3 x Pt 100 (DIN 43 760/IEC 751) 3 x Pt 1000, KTY 83, KTY 84 3 x 1...6 PTC (DIN 44080/44081)
Measuring accuracy	<1 % of value ±1 digit
Sensor-current	<3 mA
Connection	2-wire and 3-wire, line-resistance max. 3 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 informations") 3 x change-over / alarm
Test conditions	see "general technical informations"
Rated ambient temperature range	-20°C...+55°C
Dimensions (h x w x d)	design 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