Pt100-Temperature-Relay Type TR600 Digital, 6 Sensors, 6 Limits, 2 analog outputs

Temperature Relay for 6 Sen-

The Pt100-temperature relay TR600 monitors up to six sensors

Pt100 (RTD) at the same time. Six

sors Pt100

TR600

ZIEHL

with analog output



Part numbers:

TR600 analog		T224360
ER8		T224388

24388

switching points and six relays permit almost any combination of switching action. It also can select the highest temperature of

groups of sensors. The temperatures of two sensors or groups of sensors can be issued to 2 analog outputs i.e. for remote displays or further evaluation. Programming is very variable and simple.

Due to the fact that 6 type Pt100 sensors can be connected, the unit is especially suitable for temperature monitoring wherever up to 6 different measuring points must be monitored simultaneausly:

- machines, bearings, plants
- motors and generators with simultaneous monitoring of bearings and coolant.
- transformers with additional monitoring of the core temperature also

Accessory: Installation frame ER8 for panel mount

measuring and monitoring range -199 ... +800 °C

- 6 sensor inputs with 2- or 3wire connection
- 6 relay outputs K1 to K6 with change-over contacts
- switching points for single sensor or group of 2, 3 or 6 sensors
- sensor error relay K7 monitors sensor break or
- sensor short circuit as well as an interruption of the powersupply.
- 2 analog outputs, 0/4...20 mA and 0/2...10 V, with individual scaling.
- universal power supply in 2 ranges AC/DC 24 - 240 V
- USB-Stick-Terminal for upand download of sets of parameters and for firmwareupdates

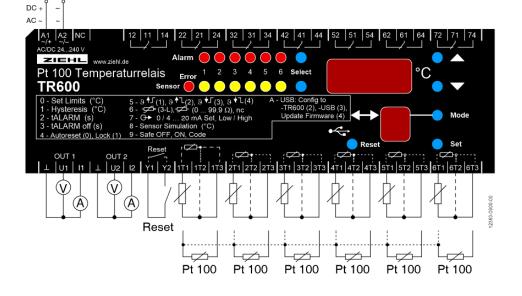
Us

Displays

- built-in 3 digit temperature display and 1 digit program-mode display
- LED Alarm showing state of the alarm relays
- LED Sensor Error blinking at sensor short circuit or sensor interruption.
- Stored Values of MIN- and MAX- temperature can be displayed
- "Sensor select" showing temperatures of the different sensors
- "Alarm select" showing switching points .

Programmable for each relay extra:

- hysteresis
- electronic reclosing lock or autoreset
- switch-on delay and switch-off delay
- MIN or MAX- function of relay
- relay releases or picks up when exceeding the setpoint





Technical Data TR600

Rated supply voltage Us	tolerance DC-supply tolerance AC-supply	AC/DC 24 – 240 V DC 20,4297 V AC 20264 V
	power consumption frequency	< 4 W, < 13 VA 0 / 50 / 60 Hz
Relay outputs	switching voltage switching current switching power	7 change-over contacts (co) max. AC 415 V max. 5 A max. 1250 VA (ohmic load) max. 120 W at DC 30 V
	Nominal operational current l _e AC 15 DC 13	$I_e = 3 A$ $U_e = 250 V$ $I_e = 2 A$ $U_e = 24 V$ $I_e = 0.1 A$ $U_e = 250 V$
	recommended fuse NO recommended fuse NC expected life mechanical expected life electrical	4 A time-lag or miniature circuit-breaker MCB B4 3.15 A time-lag 3 x 10^7 operations 1 x 10^5 operations with AC 250 V / 5 A, cos ϕ = 1
Testing conditions	ambient temperature range	EN 60 010-1 - 20 + 65 °C
	galvanic separation	Us-Relay, Sensors, USB, Analog output Reset input -> DC 3820 V Relay - Sensors, USB, Analog output Reset input -> DC 3820 V
	No galvanic separation	Sensors, USB, Analog output, Reset input
Sensor connection	measuring accuracy sensor current measuring delay time t _M	6 x Pt 100 acc. to EN 60751 / IEC 60751, 2- / 3-wire ±0,5 % of value ±1 Digit ≤ 0,7 mA <1,5 s
Temperature alarm	switch points hysteresis delay time tALARM delay time tALARM off	-199 +800 °C 1 99 K 0,1 99,9 s 0 999 s
Analog output OUT 1/2	voltage outputs current outputs output resistance current no-load voltage accuracy	DC 0/2 V – 10 V , max. DC 10 mA DC 0/4 mA – 20 mA max. 500 Ω max. DC 16 V 1% of span ±1 K
Housing	Design / Installation Frame Simensions (h x w x d) Line connection solid wire Protection housing / terminals Attachment Weight	V8 / Front mounting kit ER8, 8 TE 90 x 140 x 58 [mm] mounting height 55 mm 1 x 1,5 mm ² (1,0 mm ² with end sleeves for strands) IP 30 / IP 20 on 35 mm DIN rail according to EN 60715 or M4 screw app. 360 g