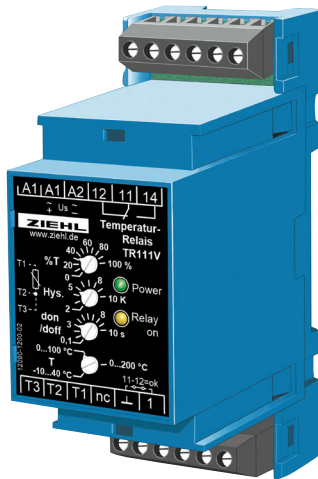


# Pt 100-Temperature-Relay Type TR111V

## 1 Sensor

**TR111V**  
3-Leiter



### Part numbers:

**T224107** -10...+200 °C  
**T224108** 0...+400 °C

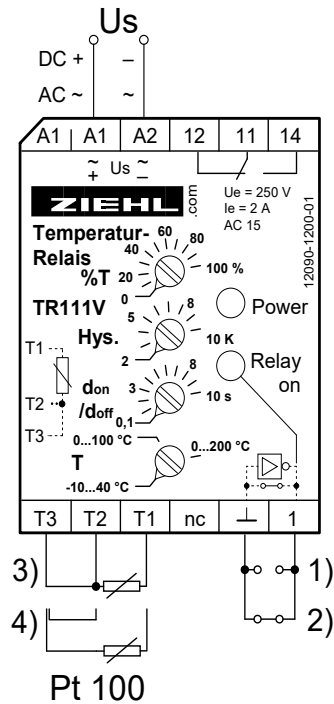
Temperature-Relays TR111V can be used as limit-switches or 2-point controllers with high repeat accuracy.

3 measuring-ranges, adjustable hysteresis and switching delay and the choice between operating- and closed-current principle of the relay make it a very universal device.

- Measuring input 1x Pt 100 (RTD) / 3-wire
- measuring-ranges selectable:
  - -10...+40/0...100/0...200 °C
  - 0...100/100...200/200...300/300...400 °C
- 1 limit adjustable 0...100 % switching delay adjustable 0,1...10 s
- Output-relay 1 changeover-contact (co)
- Operating- or closed-current-mode selectable with bridge
- Switching off at sensor-short-circuit or break
- LEDs for display state of operation
- Universal supply-voltage AC/DC 24-240 V
- Housing for mounting in switchgear cabinets or fuse-boxes, 35 mm wide  
Mounting height 55 mm

### Application:

Protection from over-temperature in processes, plants and machines. Monitoring of temperatures in bearings. Controlling of temperatures in processes and plants.



- 1) Ruhestrom / closed current mode
- 2) Arbeitsstrom / operating current mode
- 3) 3-Leiter / 3-wire
- 4) 2-Leiter / 2-wire  
Brücke zwischen T2-T3 / Bridge from T2-T3

## Technical Data

Supply voltage $U_s$	AC/DC 24-240 V, 0/50/60 Hz, < 2W, < 3VA (DC 20,4 - 297, AC 20-264 V)
Pt 100 -Sensor (RTD)	EN 60751 / IEC 60751
Measuring ranges	ranges selectable
Error of setting	$\pm 5$ K
Repeat error	app. 0,5 K
Temperature-dependence	$\leq 0,05$ %/K
Hysteresis	adjustable 2...10 K
Switching delay don/doff	adjustable 0,1...10 s
Relay output	1 change-over contact (co)
Type of contact	<b>type 3</b> see "general technical informations"
Test conditions	siehe "general technical informations"
Rated ambient temperature range	-20°C...+55°C
Dimensions (H x W x D)	design V4: 90x70x58 [mm], mounting height 55 mm
Attachment	on 35 mm DIN-rail according to EN 60 715 or with screws M4
Protection housing/terminals	IP 30 / IP 20
Weight	app. 100 g