

# Pt 100-Temperature-Relay TR 1200 IP

## 12 Sensors, Interface TCP/IP

### TR 1200 IP



### 12-channel Temperature-Relay for Sensors Pt 100 (RTD)

Temperature-relays TR 1200 IP measure the temperature of up to 12 sensors within 199...+850 °C and provide the data at an ethernet interface for external evaluation. With its universal power-supply AC/DC 24-240 V it can be connected to all common supply-voltages.

Actual measured values and stored min- and max-values can

be displayed in a normal browser. At the Ethernet-interface the values are available in protocol Modbus TCP or in ZIEHL-Standard RTD.

The TR 1200 IP is used where temperatures of many sensors Pt 100 shall be measured and transmitted via Ethernet.

Applications are e.g. monitoring of

- motors and generators (windings, bearings, coolant, ambient temperature)
- transformers (windings, core, ambient temperature)
- machines, plants and equipment

### Features

Sensors and Displays:

- 12 inputs for sensors Pt 100 (RTD)
- Connection 2- or 3-wire  
unnused inputs can be switched off
- Monitoring of sensors for short-circuit and interrupt
- 3-digit-display for temperature
- LEDs for assigning the measured value, error, state of relay and interface

Interface and Relay:

- Interface TCP/IP
- 10 MBit/s Ethernet
- Protocol ZIEHL-Standard RTD or Modbus TCP (see [www.ziehl.de](http://www.ziehl.de))

- function like 2 x TR 600 Web
- Relay for Error (1 co-contact) for sensor-error and operational failure

More Features:

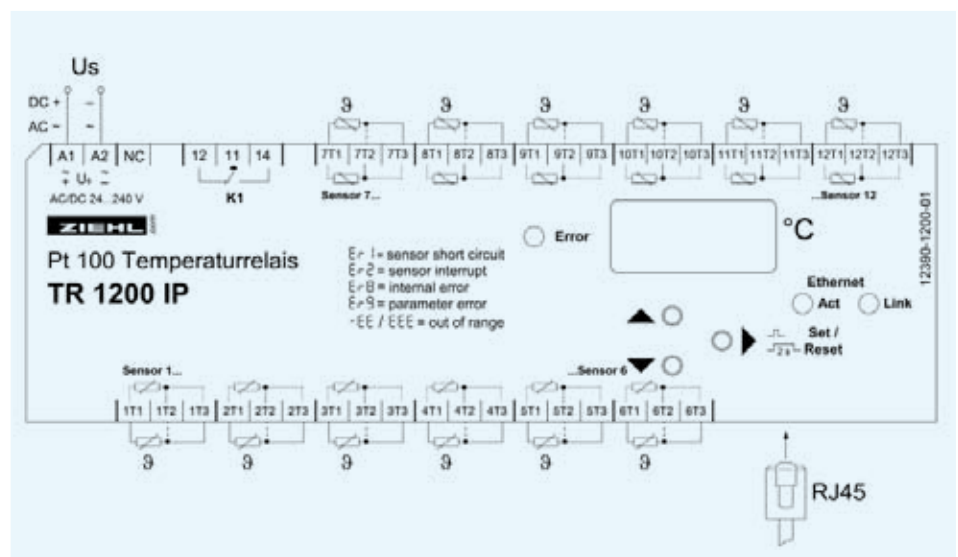
- easy operation and selection of temperatures at the device
- Sensor-simulation
- Code-protection against manipulation of settings
- Universal supply-voltage AC/DC 24...240 V
- Housing for switchgear-mount, 140 mm wide, mounting-height 55 mm
- Mounting on DIN-rail 35mm or with screws M4 (option)

Software

- The TR 1200 IP can be operated with a normal web-browser. There is no special software required.

Order-number

**T 224081**



## Technical Data TR 1200 IP

Rated Supply Voltage Us	AC/DC 24-240 V, 0/45...65 Hz, < 5 VA DC: 20,4...297 V, AC: 20,4...264 V
Relay output	1 change-over contact (CO) type 2, see "general technical informations"
Measuring inputs	12 x Pt 100 (RTD) acc. to EN 60 751 / IEC 60 751
Measuring time sensor	0,25...3s (depending on number of sensors)
Measuring range	-199° ...850°C
Resolution	1°C
Tolerance	± 0,5% of value ± 1 K
Sensor-current	≤ 0,8 mA
Ethernet interface	
IP-adress	selectable
Subnet mask	selectable
UDP Port	selectable 0...65535
Max. cable-length	max. 20 m with CAT 5 patch-cable
Max. response time	200 ms
Testing conditions	see "general technical informations"
Rated ambient temperature range	-20°C...+65°C
Housing	Design V8
Dimensions (W x H x D)	140 x 90 x 58 mm, mounting height 55 mm
Protection housing/terminals	IP 30 / IP 20
Attachment	DIN-rail 35 mm acc. to EN 60715 or screws M4 (option)
Weight	app. 350 g