Pt100-Temperature-Relay TR1200IP 12 Sensors, Interface TCP/IP, IEC 61850 (GOOSE)

TR1200IP



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Part number:

T224078 AC/DC 24-240 V

for Sensors Pt 100 (RTD) Temperature-relays TR1200IP

12-channel Temperature-Relay

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 following protocols are available:

- Modbus TCP
- ZIEHL RTD
- IEC 61850 (GOOSE)

The TR1200IP is used where temperatures of many sensors Pt100 shall be measured and transmitted via Ethernet. TR1200 itself does not monitor temperatures for limits. For direct monitoring of temperatures our devices with alarms and output relays are recommended.

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 Pt100 (RTD)
- Connection 2- or 3-wire unneeded 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:

- Interface TCP/IP
- 10 MBit/s Ethernet
- supports IEC 61850 GOOSE

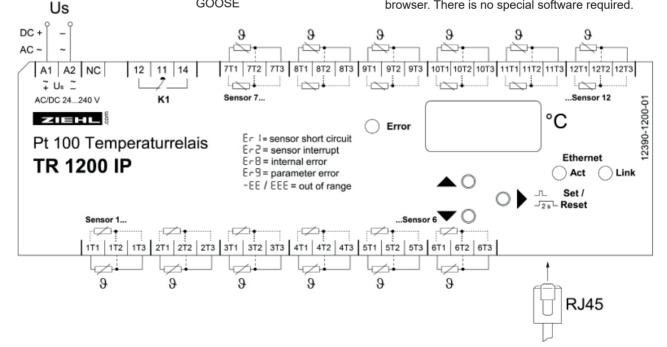
 Protocol details see www.ziehl.de - operating manuals

More Features:

- easy operation and selection of temperatures at the device
- Sensor-simulation
- · Code-protection against manipulation of settings
- Relay for Error (1 co-contact) for sensor-error and operational failure
- 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 TR1200IP can be operated with a normal webbrowser. There is no special software required.





TR1200IP

GOOSE settings

Technica

and configuration:

Status)(Simulation)(Senso	or Config)[IP Config][TCP/UDI	P Config) GOOSE (Firm	ware Update Help
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Achtung: VLAN ID / Priorität wird nicht ünterstützt! Warning: VLAN ID / Priority is not supported! ◉ On © Off IEC 61850: 01:0C:CD:01:10:00 Goose MAC: IEC 61850 Name: TR1200IP 504 Go ID: ZIEHL_TR1200IP 0x 0504 App ID: Monitoring time min: 10 ms Monitoring time max: 2000 ms .0 °C Deadband: 99 Config revision: 1 Save Config

Download IEC 61850 IED Capability Description (ICD) file

Sensor state of single sensor	Internal error / device error 0 = no error	temperature value	Quality of the temperature value
Valid temperature	0	-199859 °C	0
Sensor = not connected	0	980 °C	0x0042
Sensor interruption	0	999 °C	0x0042
Sensor short-circuit	0	-999 °C	0x0042
any	> 0	-199859, -999, 980,999 °C	0x0042

QUALITY 0x0042 = INVALID + FAILURE

al Data TR1200IP	Rated Supply Voltage Us	AC/DC 24-240 V, 0/4565 Hz, < 5 VA DC: 20,4297 V, AC: 20,4264 V
	Relay output	1 change-over contact (CO) type 2, see "general technical informations"
	Measuring inputs Measuring time sensor Measuring range Resolution Tolerance Sensor-current	12 x Pt 100 (RTD) acc. to EN 60 751 / IEC 60 751 0,253s (depending on number of sensors) -199°850°C 1°C ± 0,5% of value ± 1 K ≤ 0,8 mA
	Ethernet interface IP-adress Subnet mask UDP Port Max. cable-length Max. response time	selectable selectable selectable 065535 max. 20 m with CAT 5 patch-cable 200 ms
	Testing conditions Rated ambient temperature range	see "general technical informations" -20°C+65°C
	Housing Dimensions (W x H x D) Protection housing/terminals Attachment	Design V8 140 x 90 x 58 mm, mounting height 55 mm IP 30 / IP 20 DIN-rail 35 mm acc. to EN 60715 or screws M4 (option)
	Weight	app. 350 g