

Pt 100-Temperature-Relay Type TR122DA

1 Sensor, 2 Limits, Digital display, Analog-output

TR122DA



The TR122DA is a temperature relay with 2 independant switching points and with analog output.

Order-numbers:

TR122DA with analog output

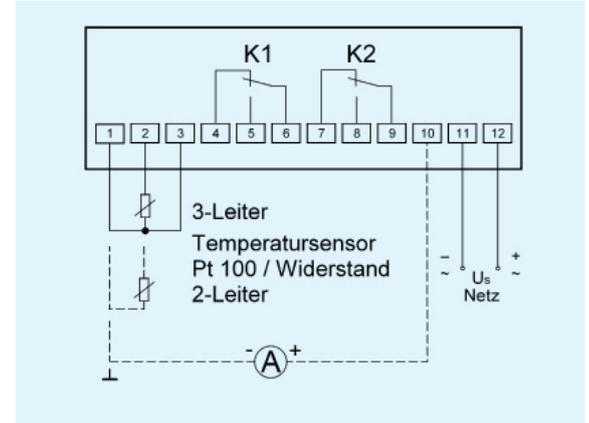
T224126

TR122D without analog output

T224127

Applications:

- Monitoring of temperature with pre-alarm and alarm
- Monitoring of under- and over-temperature
- 2-point-controller, e.g. for heating (the second switching point can be used for monitoring the function and release an alarm at over- or under-temperature)
- 3-point-controller for heating/keeping temperature
- Monitoring of resistance 0...850 Ohm
- Transducer for Resistance



Function

- 1 sensor Pt 100 (RTD) 2- or 3-wire-connection
- Range -199...+850 °C
- Resistance 0...850 Ω
- 2 alarms/relays (co- contacts)
- Digital display, 3 digits
- Monitoring of sensor (break/short-circuit)
- Display of MIN- and MAX-values
- scalable analog output 0/4...20 mA (TR 122 DA only)

- Universal supply voltage AC/DC 24-240 V
- Plug-in housing for easy mounting and service

The following parameters can be programmed:

- Switching points (alarms)
- Hysteresis (+ or - = MIN or MAX-function)
- Relay in closed- or operating current mode
- automatic reset or electronic reclosing lock
- switching- and switch-back-delay
- Analog output
- **EasyLimit** for simplified setting of alarms
- Code-lock against manipulation of settings

Technical Data

rated supply voltage U_s

AC/DC 24-240 V, <3W, <5VA
(AC 20-264 V, DC 20,4-297 V)

sensor Pt 100 (RTD) connection

Pt 100 according to EN 60 751/IEC 60 751,
Resistance 0...850 Ohm
line-resistance max. 3 x 22 Ω / 2 x 10 Ω

measuring accuracy
measuring current
connection of sensor

< 0,3 % of value ± 0,5 K (Ω)
≤ 0,8 mA
2-/3-wire, line-resistance max. 2 x 50 Ω / 3 x 50 Ω

analog output
measuring range
resolution
hysteresis
switching delays
relay-contact

0/4-20 mA, max. 500 Ω, error <0,3% of fullscale
-199 ... +850 °C / 0 ... 850 Ω
1 K (Ω), -19,9 ... 99,9; 0,1 K (Ω)
±200 K
0...999 s
type 2 (see "general technical informations")

test conditions
rated ambient temp. range
dimensions (h x w x d)
attachment

see "general technical informations"
-20°C...+55°C
design S12: 82 x 42 x 121 [mm]
on 35 mm DIN rail according to DIN EN 50 022 or with screws M4
P 30 / IP 20
app. 300 g

protection housing / terminals
weight