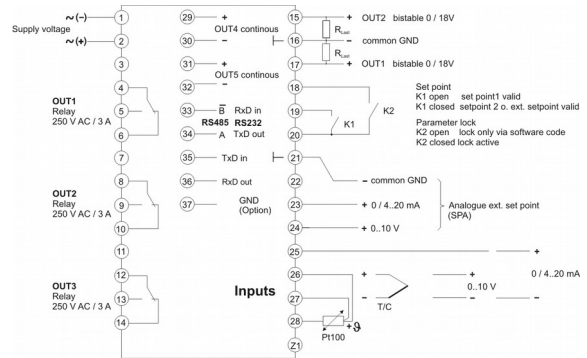


Product Information

Temperature Controller R1300



Connection diagram



Characteristics

- 2-point, 3-point-, 3-point-step and continuous-controller
- Input for Pt100 (RTD), Thermocouple and standard signals
- Measuring ranges programmable
- Control method PID with auto-tuning
- 2. set value, start-up function, set value ramp
- Control output relay, electronic output 0/18V or continuous output 0/4..20 mA ; 0/2..10 V, burden dependent
- RS485-interface
- Analog set value input 0/4..20 mA; 0..10 V
- Alarm output relay SPDT
- True value analog output 0/4..20 mA, 0/2..10 V, burden dependent

Technical data

Power supply

Supply voltage : 230 V AC ± 10 %, 24 V DC ± 20 %
 Power consumption : < 4 W
 Operating temp. : 0..50 °C
 CE-conformity : EN50081-2, EN50082-2, EN61010

Input

RTD : Pt100, 2- or 3-wire
 : sensor break/short circuit
 -Accuracy : ≤ 0.2 %
 Thermocouple : L, J, K, S
 : sensor break, internal cold junction

-Accuracy : ≤ 0.25 %
 Current : 0/4..20 mA
 Voltage : 0..10 V
 -Accuracy : ≤ 0.2 %

Output

Electronic : 0/18 V DC bistable, max. 10 mA
 Relay : controller <250 V AC <250 VA <3 A
 : alarm <250 V AC <250 VA <3 A
 Continuous : 0/4..20 mA, burden max. 500 Ω
 : 0/2..10 V, load >1 kΩ

Display

True value : LED 4-digit, red 10 mm
 Set value : LED 4-digit, red 10 mm
 Decimal point : programmable
 Operating indication : LED green
 Case : panel mounting DIN 96x96 mm,
 : material Noryl; UL94V-1
 Dimensions : front 96x96 mm, mounting depth 122 mm
 Panel cut-out : 92 +0.5 mm x 92 +0.5 mm
 Weight : approx. 450 g
 Connection : slide-in terminals,
 Protection class : front IP54, terminals IP20, acc. to BGV A3

Ordering code

R1300 - 3 - 1. - 2.

1. Interface	
MA1	without interface
MA2	with interface RS485
2. Supply voltage	
1	230 V AC ± 10 %
5	24 V DC ± 20 %
Output variations	
OUT1	control: relay, bistable 0/18 V DC
OUT2	control/alarm: relay, bistable 0/18 V DC
OUT3	alarm relay
OUT4	continuous: set value, true value output 0/4..20 mA, 0/2..10 V*
OUT5	continuous: set value, true value output 0/4..20 mA, 0/2..10 V*

* burden dependent