

Product Information

Monitoring Devices

Temperature Limit Value Relay GS1000



Characteristics

The monitoring device GS1000 can be used for monitoring of temperatures in process and automation systems.

Technical data

Power supply

Supply voltage	: $U_c \pm 10\%$
Frequency	: 47..63 Hz
Power consumption	: 4 VA
Operating temperature	: -10..+60 °C
CE - conformity	: EN 61326-1:2013; EN 60664-1:2007

Input

RTD Pt100	: sensor current 1 mA
Thermocouple	: $R_i > 1\text{ M}\Omega$
Switching hysteresis	: approx. 1 %
Scale accuracy	: 2 %
Repeatability	: 0.2 %
Accuracy	: RTD Pt100 0.7 % Thermocouple 0.3 % non linearized

Temperature coefficient

- Pt100 / Thermocouple : 0.035 %/K

Outputs

Limit relay	: 250 V AC < 250 VA < 2 A 100 V DC < 50 W < 1 A
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True value

- Voltage	: 0..10 V DC, max. 10 mA
- Current (optional)	: 0..20 mA or 4..20 mA, burden max. 500 Ω

Case

: Polycarbonate UL94V-0
acc. to DIN EN 60715:2001-09

Weight

: approx. 400 g

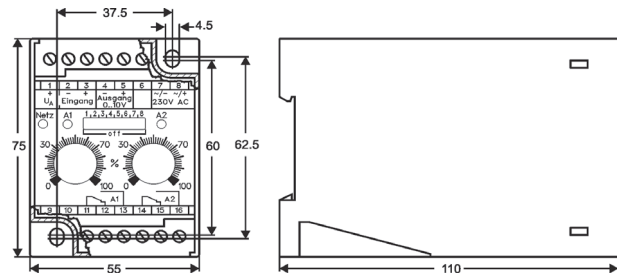
Electrical connection

: Screw terminals with pressure plate, max. 4 mm²

Protection class

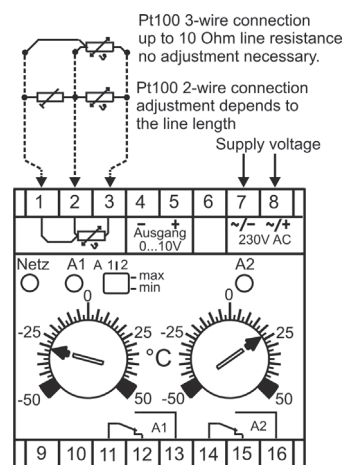
: case IP40, terminals IP20 BGV A3

Dimensions

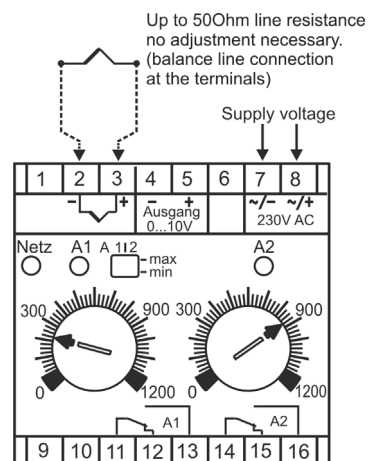


Connection diagrams

Pt100 scale °C



Thermocouple scale °C



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Product Information

Ordering code

1. 2. 3. 4.
GS1000 - - - -

1.	Limit contact (SPDT)
1	1 contact max. 250 V AC/2 A
2	2 contacts max. 250 V AC/2 A
2.	True value output
1	0..10 V (max. 10 mA) standard
2	0..20 mA burden max. 500Ω
3	4..20 mA burden max. 500Ω
3.	Supply voltage
0	230 V ±10 % 50-60Hz
5	20..28 V DC isolated
4.	Measuring input /scale
51	Pt100, -50..+50 °C
52	Pt100, 0..50 °C
53	Pt100, 0..100 °C
535	Pt100, 0..150 °C
54	Pt100, 0..200 °C
55	Pt100, 0..300 °C
56	Pt100, 0..400 °C
57	Pt100, 0..600 °C
61	Fe-CuNi (J), 0..300 °C
62	Fe-CuNi (J), 0..450 °C
63	Fe-CuNi (J), 0..600 °C
71	NiCr-Ni (K), 0..600 °C
72	NiCr-Ni (K), 0..900 °C
73	NiCr-Ni (K), 0..1200 °C
81	PtRh-Pt (S), 0..1200 °C
82	PtRh-Pt (S), 0..1600 °C