

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
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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

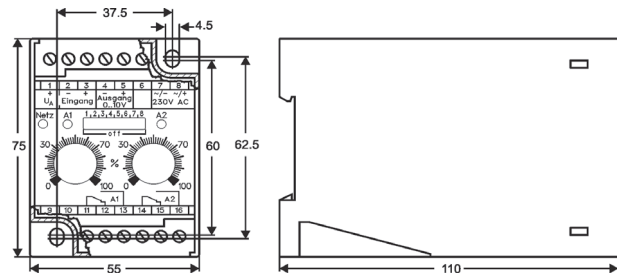
Electrical connection

: Screw terminals with pressure plate,
max. 4 mm²

Protection class

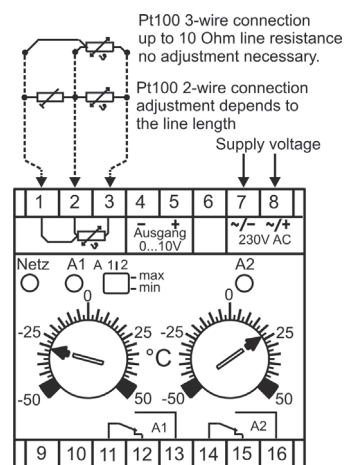
: case IP40, terminals IP20 BGV A3

Dimensions

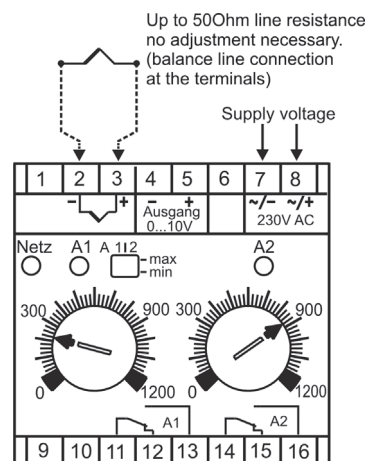


Connection diagrams

Pt100 scale °C



Thermocouple scale °C



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Ordering code

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

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