

## MIRO TEMP. CONVERTER PT100 - 2/3-LEAD METHOD

IN: -50°C..+150°C - OUT:0..10 V / (0)4..20 mA

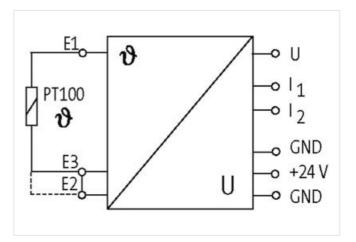
INPUT: -50...+150 °C Spring clamp terminals

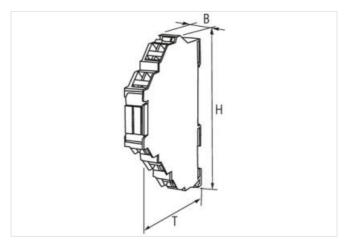
Murrelektronik's temperature converters convert a temperature into the usual signal variables (0...10 V, 4...20 mA, 0...20 mA) in conjunction with a PT100 temperature sensor (IEC 751/EN 60751). For this purpose, the MTW modules supply a constant current which causes a voltage drop at the PT100 resistor. This is linearized and converted into the corresponding output signals at the OUT terminals. All 3 signals can be used simultaneously. The 2-wire technique can be used for short distances between PT100 sensor and MTW module (<5 m). The 3-wire measuring method must be used for longer distances to compensate the measuring line resistance. For this purpose, a 3rd line (same length and design as the two measuring lines) is required. In this case, the factory-equipped bridge connecting E2 and E3 must be removed.

## **Link to Product**

## Illustration







Product may differ from Image



Commercial data

ECLASS-6.0 27210990



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ECLASS-6.1	27210190
ECLASS-7.0	27210190
ECLASS-8.0	27210190
ECLASS-9.0	27210129
ECLASS-10.1	27210129
ECLASS-11.1	27210129
ECLASS-12.0	27210129
ETIM-5.0	EC001446
customs tariff number	85437090
GTIN	4048879022378
Packaging unit	1
Electrical data	
Accuracy (of full scale)	1 %
Electrical data   Supply	
	04.1/
Operating voltage DC	24 V
Operating voltage DC min. Operating voltage DC max.	18 V 30 V
Operating voltage DC max.  Operating current max.	
	80 mA
Electrical data   Output	
Load max.	25 mA
Working resistance max.	500 Ω
Device protection   Electrical	
Overload protection output	yes
Mechanical data   Mounting data	
Mounting method	geschnappt
Suitable for mounting type	mounting rail, (EN 60715)
Height	90 mm
Width	12,4 mm
Depth	70 mm
Environmental characteristics   Climatic	
Operating temperature min.	0 °C
Operating temperature max.	60 °C
Connection type 7	
Connection	Spring clamp terminals FK
Family construction form	terminal
Gender	female
Color contact carrier	green
No. of poles	2
PIN 1	+ 24 V DC
PIN 2	- 24 V DC
Connection	Spring clamp terminals FK
Family construction form	terminal
Gender	female
Color contact carrier	green
No. of poles	2
PIN 1	E3
PIN 2	E 2
Connection	Spring clamp terminals FK
Family construction form	terminal
Gender	female

The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-05-02



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Color contact carrier	green
No. of poles	2
PIN 2	E1
Connection	Spring clamp terminals FK
Family construction form	terminal
Gender	female
Color contact carrier	green
No. of poles	2
PIN 1	U
PIN 2	0 V
Connection	Spring clamp terminals FK
Family construction form	terminal
Gender	female
Color contact carrier	green
No. of poles	2
PIN 1	I1
PIN 2	12
Connection	Spring clamp terminals FK
Family construction form	terminal
Gender	female
Color contact carrier	green
No. of poles	2
PIN 1	24 V DC
PIN 2	0 V
Connection	Spring clamp terminals FK
Family construction form	terminal
Gender	female
Color contact carrier	green
No. of poles	2
PIN 1	In 1
PIN 2	12