MURR ELEKTRONIK
stay connected

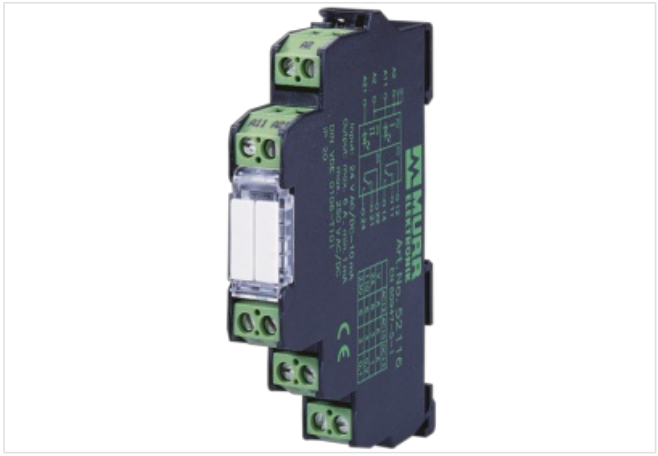
MIRO TEMP. CONVERTER PT100 - 2/3-LEAD METHOD

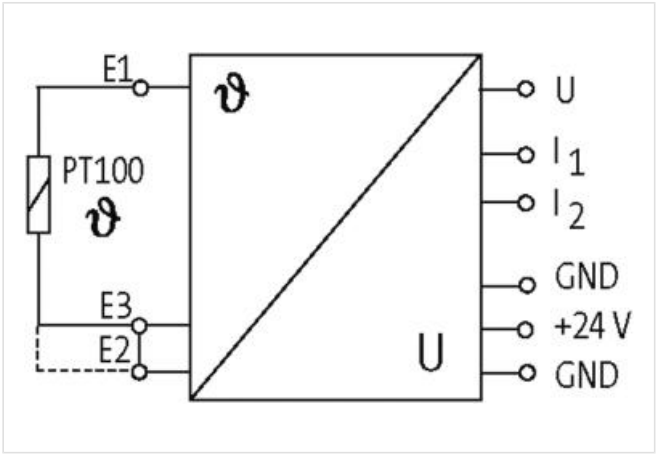
IN: -50°C..+150°C - OUT:0..10 V / (0)4..20 mA

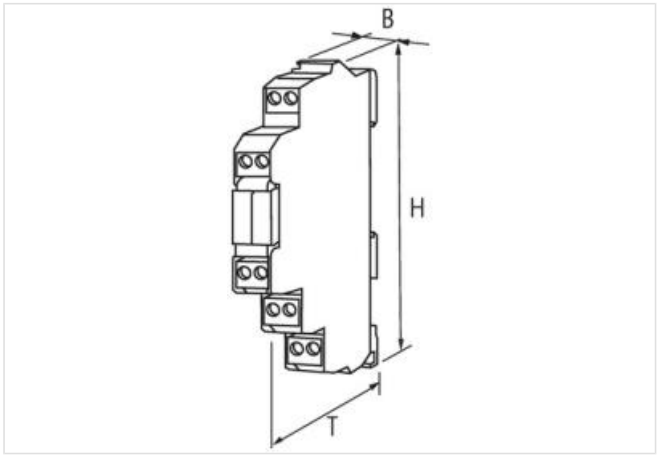
INPUT: -50...+150 °C
Screw terminals
Murrelektronik's temperature converters convert a temperature into the usual signal variables (0...10 V, 4...20 mA, 0...20 mA) in conjunction with a PT100 temperature sensor (IEC 751/ EN 60751). For this purpose, the MTW modules supply a constant current which causes 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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Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-03-28

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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	4048879028257
Packaging unit	1
Electrical data	
Accuracy (of full scale)	1 %
Electrical data | Supply	
Operating voltage DC	24 V
Operating voltage DC min.	18 V
Operating voltage DC max.	30 V
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 10	
Connection type 1	X1
Connection type 2	X2
Connection type 3	X3
Connection type 4	X4
Connection type 5	X5
Connection	Screw terminals SK
Family construction form	terminal
Gender	female
Color contact carrier	green
No. of poles	2
PIN 1	n.c.
PIN 2	E 1
Connection	Screw terminals SK
Family construction form	terminal
Gender	female
Color contact carrier	green
No. of poles	2

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PIN 1	0 V
PIN 2	U
Connection	Screw terminals SK
Family construction form	terminal
Gender	female
Color contact carrier	green
No. of poles	2
PIN 1	E 3
PIN 2	E 2
Connection	Screw terminals SK
Family construction form	terminal
Gender	female
Color contact carrier	green
No. of poles	2
PIN 1	I 2
PIN 2	I 1
Connection	Screw terminals SK
Family construction form	terminal
Gender	female
Color contact carrier	green
No. of poles	2
PIN 1	24 V DC
PIN 2	0 V
Connection	Screw terminals SK
Family construction form	terminal
Gender	female
No. of poles	2
PIN 1	+ 24 V DC
PIN 2	- 24 V DC
Connection	Screw terminals SK
Family construction form	terminal
Gender	female
No. of poles	2
PIN 1	E 3
PIN 2	E 2
Connection	Screw terminals SK
Family construction form	terminal
Gender	female
No. of poles	2
PIN 2	E 1
Connection	Screw terminals SK
Family construction form	terminal
Gender	female
No. of poles	2
PIN 1	U
PIN 2	0 V
Connection	Screw terminals SK
Family construction form	terminal
Gender	female
No. of poles	2
PIN 1	I 1
PIN 2	I 2

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