

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

IN: 0°C..+600°C - OUT:0..10 V / (0)4..20 mA

INPUT: 0...600 °C

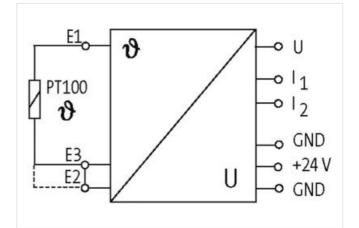
Screw terminals

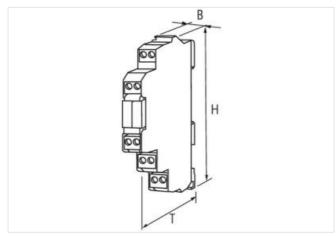
Murrelektronik's temperature converters convert a temperature into the usual signal variables (0...10 V, 4...20 mA, 0...20 mA) in conjunction with a PT100 temperature sensor (IEC 751/ EN 60751). For this purpose, the MTW modules supply a constant current which causes a voltage drop at the PT100 resistor. 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

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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	4048879028202
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
	300.75
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	
Environmental characteristics Climatic Operating temperature min.	℃ ℃
Operating temperature min.	0 °C
Operating temperature min. Operating temperature max.	0 °C
Operating temperature min. Operating temperature max. Connection type 10	0 °C 60 °C
Operating temperature min. Operating temperature max. Connection type 10 Connection type 1	0 °C 60 °C X1
Operating temperature min. Operating temperature max. Connection type 10 Connection type 1 Connection type 2	0 °C 60 °C X1 X2
Operating temperature min. Operating temperature max. Connection type 10 Connection type 1 Connection type 2 Connection type 3	0 °C 60 °C X1 X2 X3
Operating temperature min. Operating temperature max. Connection type 10 Connection type 1 Connection type 2 Connection type 3 Connection type 4	0 °C 60 °C X1 X2 X3 X4
Operating temperature min. Operating temperature max. Connection type 10 Connection type 1 Connection type 2 Connection type 3 Connection type 4 Connection type 5	0 °C 60 °C X1 X2 X3 X4 X5
Operating temperature min. Operating temperature max. Connection type 10 Connection type 1 Connection type 2 Connection type 3 Connection type 4 Connection type 5 Connection	0 °C 60 °C X1 X2 X3 X4 X5 Screw terminals SK
Operating temperature min. Operating temperature max. Connection type 10 Connection type 1 Connection type 2 Connection type 3 Connection type 4 Connection type 5 Connection Family construction form	0 °C 60 °C X1 X2 X3 X4 X5 Screw terminals SK terminal
Operating temperature min. Operating temperature max. Connection type 10 Connection type 1 Connection type 2 Connection type 3 Connection type 4 Connection type 5 Connection Family construction form Gender	0 °C 60 °C X1 X2 X3 X4 X5 Screw terminals SK terminal female
Operating temperature min. Operating temperature max. Connection type 10 Connection type 2 Connection type 3 Connection type 4 Connection type 5 Connection Family construction form Gender Color contact carrier	0 °C 60 °C X1 X2 X3 X3 X4 X5 Screw terminals SK terminal female green
Operating temperature min. Operating temperature max. Connection type 10 Connection type 1 Connection type 2 Connection type 3 Connection type 4 Connection type 5 Connection Family construction form Gender Color contact carrier No. of poles	0 °C 60 °C X1 X2 X3 X4 X5 Screw terminals SK terminal female green 2
Operating temperature min. Operating temperature max. Connection type 10 Connection type 1 Connection type 2 Connection type 3 Connection type 4 Connection type 5 Connection Family construction form Gender Color contact carrier No. of poles PIN 1	0 °C 60 °C X1 X2 X3 X4 X5 Screw terminals SK terminal female green 2 N.C.
Operating temperature min. Operating temperature max. Connection type 10 Connection type 1 Connection type 2 Connection type 3 Connection type 4 Connection type 5 Connection Family construction form Gender Color contact carrier No. of poles PIN 1 PIN 2	0 °C 60 °C X1 X2 X3 X4 X5 Screw terminals SK terminal female green 2 n.c. E 1
Operating temperature min. Operating temperature max. Connection type 10 Connection type 1 Connection type 2 Connection type 3 Connection type 4 Connection type 5 Connection Family construction form Gender Color contact carrier No. of poles PIN 1 PIN 2 Connection	0 °C 60 °C X1 X2 X3 X4 X5 Screw terminals SK terminal female green 2 n.c. E 1 Screw terminals SK
Operating temperature min. Operating temperature max. Connection type 10 Connection type 1 Connection type 2 Connection type 3 Connection type 4 Connection type 5 Connection Family construction form Gender Color contact carrier No. of poles PIN 1 PIN 2 Connection Family construction form	0 °C 60 °C X1 X2 X3 X4 X5 Screw terminals SK terminal female green 2 n.c. E 1 Screw terminals SK terminal
Operating temperature min. Operating temperature max. Connection type 10 Connection type 1 Connection type 2 Connection type 3 Connection type 4 Connection type 5 Connection Family construction form Gender Color contact carrier No. of poles PIN 1 PIN 2 Connection Family construction form	0 °C 60 °C X1 X2 X3 X4 X5 Screw terminals SK terminal female green 2 n.c. E 1 Screw terminals SK terminal female

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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	12
PIN 2	11
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	E1
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	11
PIN 2	12

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