

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

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

## INPUT: -50...+50 °C

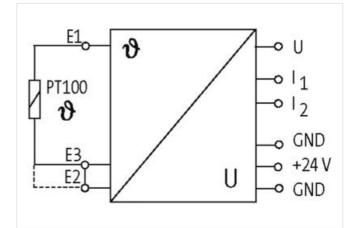
Spring clamp terminals

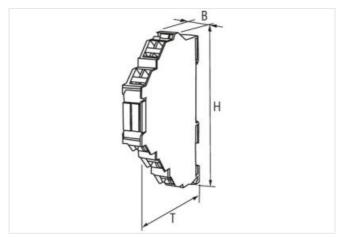
Murrelektronik's temperature converters convert a temperature into the usual signal variables (0...10 V, 4...20 mA, 0...20 mA) in conjunction with a PT100 temperature sensor (IEC 751/ EN 60751). For this purpose, the MTW modules supply a constant current which causes a voltage drop at the PT100 resistor.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

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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	4048879022385
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
	500 Ω
Working resistance max.	300 12
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
Height Width	90 mm 12,4 mm
Width	12,4 mm
Width Depth	12,4 mm
Width Depth Environmental characteristics   Climatic	12,4 mm 70 mm
Width Depth Environmental characteristics   Climatic Operating temperature min.	12,4 mm 70 mm 0 °C
Width         Depth         Environmental characteristics   Climatic         Operating temperature min.         Operating temperature max.	12,4 mm 70 mm 0 °C 60 °C
Width         Depth         Environmental characteristics   Climatic         Operating temperature min.         Operating temperature max.         Connection type 7         Connection	12,4 mm 70 mm 0 °C
Width         Depth         Environmental characteristics   Climatic         Operating temperature min.         Operating temperature max.         Connection type 7	12,4 mm 70 mm 0 °C 60 °C Spring clamp terminals FK
Width         Depth         Environmental characteristics   Climatic         Operating temperature min.         Operating temperature max.         Connection type 7         Connection         Family construction form	12,4 mm 70 mm 0 °C 60 °C Spring clamp terminals FK terminal
Width         Depth         Environmental characteristics   Climatic         Operating temperature min.         Operating temperature max.         Connection type 7         Connection         Family construction form         Gender	12,4 mm 70 mm 0 °C 60 °C Spring clamp terminals FK terminal female
Width         Depth         Environmental characteristics   Climatic         Operating temperature min.         Operating temperature max.         Connection type 7         Connection         Family construction form         Gender         Color contact carrier	12,4 mm 70 mm 0 °C 60 °C Spring clamp terminals FK terminal female green
Width         Depth         Environmental characteristics   Climatic         Operating temperature min.         Operating temperature max.         Connection type 7         Connection         Family construction form         Gender         Color contact carrier         No. of poles	12,4 mm 70 mm 0 °C 60 °C Spring clamp terminals FK terminal female green 2
Width         Depth         Environmental characteristics   Climatic         Operating temperature min.         Operating temperature max.         Connection type 7         Connection         Family construction form         Gender         Color contact carrier         No. of poles         PIN 1	12,4 mm 70 mm 0 °C 60 °C Spring clamp terminals FK terminal female green 2 + 24 V DC
Width         Depth         Environmental characteristics   Climatic         Operating temperature min.         Operating temperature max.         Connection type 7         Connection         Family construction form         Gender         Color contact carrier         No. of poles         PIN 1         PIN 2	12,4 mm         70 mm         0 °C         60 °C         Spring clamp terminals FK         terminal         female         green         2         + 24 V DC         - 24 V DC
Width         Depth         Environmental characteristics   Climatic         Operating temperature min.         Operating temperature max.         Connection type 7         Connection         Family construction form         Gender         Color contact carrier         No. of poles         PIN 1         PIN 2         Connection	12,4 mm 70 mm 0 °C 60 °C Spring clamp terminals FK terminal female green 2 + 24 V DC - 24 V DC Spring clamp terminals FK
Width         Depth         Environmental characteristics   Climatic         Operating temperature min.         Operating temperature max.         Connection type 7         Connection         Family construction form         Gender         Color contact carrier         No. of poles         PIN 1         PIN 2         Connection         Family construction form	12,4 mm 70 mm 0 °C 60 °C Spring clamp terminals FK terminal female green 2 + 24 V DC - 24 V DC - 24 V DC Spring clamp terminals FK terminal
Width         Depth         Environmental characteristics   Climatic         Operating temperature min.         Operating temperature max.         Connection type 7         Connection         Family construction form         Gender         Color contact carrier         No. of poles         PIN 1         PIN 2         Connection         Family construction form         Gender	12,4 mm         70 mm         0 °C         60 °C         Spring clamp terminals FK         terminal         female         green         2         + 24 V DC         - 24 V DC         Spring clamp terminals FK         terminal         female         green         2         + 24 V DC         - 24 V DC         Spring clamp terminals FK         terminal         female
Width         Depth         Environmental characteristics   Climatic         Operating temperature min.         Operating temperature max.         Connection type 7         Connection         Family construction form         Gender         Color contact carrier         No. of poles         PIN 1         PIN 2         Connection         Family construction form         Gender         Color contact carrier         No. of poles         PIN 1         PIN 2         Connection         Family construction form         Gender         Color contact carrier	12,4 mm         70 mm         0 °C         60 °C         Spring clamp terminals FK         terminal         female         green         2         + 24 V DC         - 24 V DC         Spring clamp terminals FK         terminal         female         green         2         + 24 V DC         - 24 V DC         Spring clamp terminals FK         terminal         female         green         green         green         green
Width         Depth         Environmental characteristics   Climatic         Operating temperature min.         Operating temperature max.         Connection type 7         Connection         Family construction form         Gender         Color contact carrier         No. of poles         PIN 1         PIN 2         Connection         Family construction form         Gender         Color contact carrier         No. of poles         PIN 1         PIN 2         Connection         Family construction form         Gender         Color contact carrier         No. of poles	12,4 mm         70 mm         0 °C         60 °C         Spring clamp terminals FK         terminal         female         green         2         + 24 V DC         - 24 V DC         Spring clamp terminals FK         terminal         female         green         2         + 24 V DC         Spring clamp terminals FK         terminal         female         green         2
Width         Depth         Environmental characteristics   Climatic         Operating temperature min.         Operating temperature max.         Connection type 7         Connection         Family construction form         Gender         Color contact carrier         No. of poles         PIN 1         PIN 2         Connection         Family construction form         Gender         Connection         Family construction form         Gender         Connection         PIN 1         PIN 2         Connection         Family construction form         Gender         Color contact carrier         No. of poles         PIN 1	12,4 mm 70 mm 0 °C 60 °C Spring clamp terminals FK terminal female green 2 + 24 V DC - 24 V DC - 24 V DC Spring clamp terminals FK terminal female green 2 = 2 = 2 = 2 = 2 = 2 = 2 = 2
Width         Depth         Environmental characteristics   Climatic         Operating temperature min.         Operating temperature max.         Connection type 7         Connection         Family construction form         Gender         Color contact carrier         No. of poles         PIN 1         PIN 2         Connection form         Gender         Connection         PIN 1         PIN 2         Color contact carrier         No. of poles         PIN 1         PIN 2         Color contact carrier         No. of poles         PIN 1         PIN 2         PIN 1         PIN 2	12,4 mm         70 mm         0 °C         60 °C         Spring clamp terminals FK         terminal         female         green         2         + 24 V DC         - 24 V DC         Spring clamp terminals FK         terminal         female         green         2         + 24 V DC         - 24 V DC         Spring clamp terminals FK         terminal         female         green         2         E 3         E 3         E 2
Width         Depth         Environmental characteristics   Climatic         Operating temperature min.         Operating temperature max.         Connection type 7         Connection         Family construction form         Gender         Color contact carrier         No. of poles         PIN 1         PIN 2         Connection         Family construction form         Gender         Color contact carrier         No. of poles         PIN 1         PIN 2         Color contact carrier         No. of poles         PIN 1         PIN 2         Color contact carrier         No. of poles         PIN 1         PIN 2         Connection	12,4 mm         70 mm         0 °C         60 °C         Spring clamp terminals FK         terminal         female         green         2         + 24 V DC         - 24 V DC         Spring clamp terminals FK         terminal         female         green         2         + 24 V DC         - 24 V DC         Spring clamp terminals FK         terminal         female         green         2         E 3         E 3         E 2         Spring clamp terminals FK

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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	11
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

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