

## 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

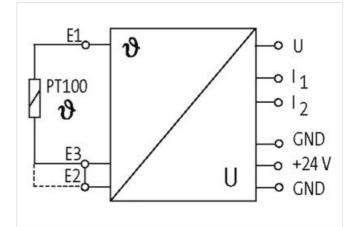
# Screw terminals

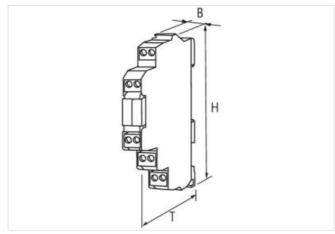
Murrelektronik's temperature converters convert a temperature into the usual signal variables (0...10 V, 4...20 mA, 0...20 mA) in conjunction with a PT100 temperature sensor (IEC 751/EN 60751). For this purpose, the MTW modules supply a constant current which causes a voltage drop at the PT100 resistor. 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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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	4048879028264
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	accompany
Mounting method	geschnappt
Suitable for mounting type	mounting rail, (EN 60715)
Suitable for mounting type	mounting rail, (EN 60715)
Suitable for mounting type Height	mounting rail, (EN 60715) 90 mm
Suitable for mounting type Height Width	mounting rail, (EN 60715) 90 mm 12,4 mm
Suitable for mounting type Height Width Depth	mounting rail, (EN 60715) 90 mm 12,4 mm
Suitable for mounting type Height Width Depth Environmental characteristics   Climatic	mounting rail, (EN 60715)       90 mm       12,4 mm       70 mm
Suitable for mounting type Height Width Depth Environmental characteristics   Climatic Operating temperature min.	mounting rail, (EN 60715)       90 mm       12,4 mm       70 mm       0 °C
Suitable for mounting type Height Width Depth Environmental characteristics   Climatic Operating temperature min. Operating temperature max. Connection type 10	mounting rail, (EN 60715)       90 mm       12,4 mm       70 mm       0 °C
Suitable for mounting type       Height       Width       Depth       Environmental characteristics   Climatic       Operating temperature min.       Operating temperature max.       Connection type 10       Connection type 1	mounting rail, (EN 60715)       90 mm       12,4 mm       70 mm       0 °C       60 °C
Suitable for mounting type Height Width Depth Environmental characteristics   Climatic Operating temperature min. Operating temperature max. Connection type 10	mounting rail, (EN 60715)       90 mm       12,4 mm       70 mm       0 °C       60 °C       X1
Suitable for mounting type Height Width Depth Environmental characteristics   Climatic Operating temperature min. Operating temperature max. Connection type 10 Connection type 1 Connection type 2 Connection type 3	mounting rail, (EN 60715)       90 mm       12,4 mm       70 mm       0 °C       60 °C       X1       X2
Suitable for mounting type       Height       Width       Depth       Environmental characteristics   Climatic       Operating temperature min.       Operating temperature max.       Connection type 10       Connection type 2	mounting rail, (EN 60715)       90 mm       12,4 mm       70 mm       0 °C       60 °C       X1       X2       X3
Suitable for mounting type       Height       Width       Depth       Environmental characteristics   Climatic       Operating temperature min.       Operating temperature max.       Connection type 10       Connection type 1       Connection type 3       Connection type 4	mounting rail, (EN 60715)       90 mm       12,4 mm       70 mm       0 °C       60 °C       X1       X2       X3       X4
Suitable for mounting type Height Width Depth Environmental characteristics   Climatic Operating temperature min. Operating temperature max. Connection type 10 Connection type 1 Connection type 2 Connection type 3 Connection type 4 Connection type 5	mounting rail, (EN 60715)       90 mm       12,4 mm       70 mm       0 °C       60 °C       X1       X2       X3       X4       X5
Suitable for mounting type       Height       Width       Depth       Environmental characteristics   Climatic       Operating temperature min.       Operating temperature max.       Connection type 10       Connection type 2       Connection type 3       Connection type 4       Connection type 5       Connection	mounting rail, (EN 60715)       90 mm       12,4 mm       70 mm       0 °C       60 °C       X1       X2       X3       X4       X5       Screw terminals SK
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Suitable for mounting type       Height       Width       Depth       Environmental characteristics   Climatic       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       No. of poles	mounting rail, (EN 60715)       90 mm       12,4 mm       70 mm       0 °C       60 °C       X1       X2       X3       X4       X5       Screw terminals SK       terminal       female       green       2
Suitable for mounting type       Height       Width       Depth       Environmental characteristics   Climatic       Operating temperature min.       Operating temperature max.       Connection type 10       Connection type 1       Connection type 2       Connection type 3       Connection type 4       Connection       Family construction form       Gender       Color contact carrier       No. of poles       PIN 1	mounting rail, (EN 60715)         90 mm         12,4 mm         70 mm         0 °C         60 °C         X1         X2         X3         X4         X5         Screw terminals SK         terminal         female         green         2         n.c.
Suitable for mounting type       Height       Width       Depth       Environmental characteristics   Climatic       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	mounting rail, (EN 60715)       90 mm       12,4 mm       70 mm       0 °C       60 °C       X1       X2       X3       X4       X5       Screw terminals SK       terminal       female       green       2       n.c.       E 1
Suitable for mounting type       Height       Width       Depth       Environmental characteristics   Climatic       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	mounting rail, (EN 60715)         90 mm         12,4 mm         70 mm         0°C         60°C         X1         X2         X3         X4         X5         Screw terminals SK         terminal         female         green         2         n.c.         E 1         Screw terminals SK
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Suitable for mounting type       Height       Width       Depth       Environmental characteristics   Climatic       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 Form       Gender       Color contact carrier       No. of poles       PIN 1       PIN 2       Connection       Family construction form       Gender       Connection       Family construction form	mounting rail, (EN 60715)         90 mm         12,4 mm         70 mm         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         green         2         n.c.         E 1         Screw terminals SK         terminal         female

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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         Connection       Screw terminals SK         Family construction form       terminal         Gender       female         No. of poles       2         PIN 1       24 V DC         Connection       Screw terminals SK         Family construction form       terminal         Gender       female         No. of poles <td>PIN 1</td> <td>E 3</td>	PIN 1	E 3
Family construction formterminalGenderfemaleColor contact cariergreenNo. of poles2PIN 112PIN 211ConnectionScrew terminals SKFamily construction formfemaleGenderfemaleContact cariergreenNo. of poles2PIN 124 V DOPIN 20 VConnectionScrew terminals SKFamily construction formlerminalGenderfemaleContact cariergreenNo. of poles2PIN 124 V DOPIN 20 VConnectionScrew terminals SKFamily construction formlerminalGenderfemaleNo. of poles2PIN 1+ 24 V DOPIN 2- 24 V DCConnectionScrew terminals SKFamily construction formlerminalGenderfemaleNo. of poles2PIN 1+ 24 V DCConnectionScrew terminals SKFamily construction formlerminalGenderfemaleNo. of poles2PIN 1E 3PIN 2E 2ConnectionScrew terminals SKFamily construction formlerminalGenderfemaleNo. of poles2PIN 2E 1ConnectionScrew terminals SKFamily construction formlerminalGenderfemale <tr< td=""><td>PIN 2</td><td>E2</td></tr<>	PIN 2	E2
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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: 2024-04-19

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