

### 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

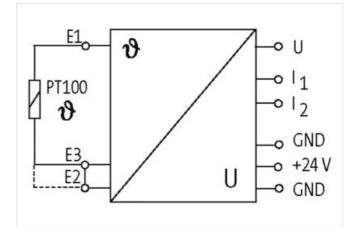
## Screw terminals

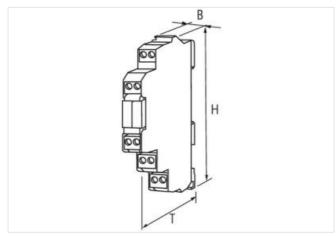
Murrelektronik's temperature converters convert a temperature into the usual signal variables (0...10 V, 4...20 mA, 0...20 mA) in conjunction with a PT100 temperature sensor (IEC 751/ EN 60751). For this purpose, the MTW modules supply a constant current which causes a voltage drop at the PT100 resistor.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

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: 2024-05-06

Murrelektronik Inc. | 1327 Northbrook Parkway, Suite 460 | Suwanee, GA 30024 | Fon +1 770 497-9292 | Fax +1 770 497-9391 | shop@murrinc.com | shop.murrinc.com

27210990



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	geschnappt
Mounting method Suitable for mounting type	geschnappt 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   60 °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   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	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 1 Connection type 2 Connection type 3	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
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 1 Connection type 2 Connection type 2 Connection type 3 Connection type 4 Connection type 4 Connection type 5 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
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 3 Connection type 4 Connection type 5 Connection type 5 Connection Family construction form Gender Color contact carrier	mounting rail, (EN 60715)     90 mm     12,4 mm     70 mm     0 °C     60 °C     X1     X2     X3     X4     X5     Screw terminals SK     terminal
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
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 3 Connection type 4 Connection type 5 Connection type 5 Connection Family construction form Gender Color contact carrier	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 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.
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
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   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
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     green     2     N.e.     E 1     Screw terminals SK     terminal     female
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   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

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: 2024-05-06

Murrelektronik Inc. | 1327 Northbrook Parkway, Suite 460 | Suwanee, GA 30024 | Fon +1 770 497-9292 | Fax +1 770 497-9391 | shop@murrinc.com | shop.murrinc.com



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
No. of poles PIN 1 PIN 2	2  1  2

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: 2024-05-06

Murrelektronik Inc. | 1327 Northbrook Parkway, Suite 460 | Suwanee, GA 30024 | Fon +1 770 497-9292 | Fax +1 770 497-9391 | shop@murrinc.com | shop.murrinc.com