

**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

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

27210990

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: 2024-04-27

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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                  | 4048879022378 |
| 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 7

|                          |                           |
|--------------------------|---------------------------|
| 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                    | - 24 V DC                 |
| Connection               | Spring clamp terminals FK |
| Family construction form | terminal                  |
| Gender                   | female                    |
| Color contact carrier    | green                     |
| No. of poles             | 2                         |
| PIN 1                    | E 3                       |
| PIN 2                    | E 2                       |
| Connection               | Spring clamp terminals FK |
| Family construction form | terminal                  |
| Gender                   | female                    |

|                          |                           |
|--------------------------|---------------------------|
| Color contact carrier    | green                     |
| No. of poles             | 2                         |
| PIN 2                    | E 1                       |
| 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                    | I 1                       |
| PIN 2                    | I 2                       |
| 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                    | I 2                       |