

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

IN: 0°C..+100°C - OUT:0..10 V / (0)4..20 mA

## INPUT: 0...100 °C

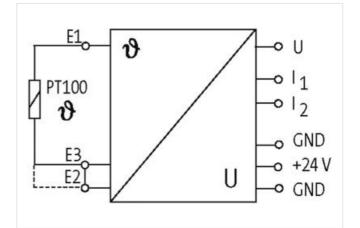
Spring clamp terminals

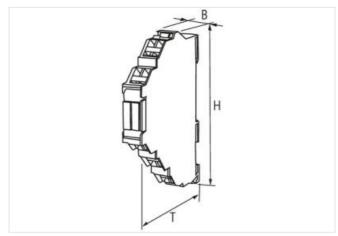
Murrelektronik's temperature converters convert a temperature into the usual signal variables (0...10 V, 4...20 mA, 0...20 mA) in conjunction with a PT100 temperature sensor (IEC 751/ EN 60751). For this purpose, the MTW modules supply a constant current which causes a voltage drop at the PT100 resistor.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

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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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                                     | 4048879022361             |
| 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           | 000.75                    |
| Overload protection output               | yes                       |
| Mechanical data   Mounting data          | yes                       |
|  |                           |
| Mounting method                          | geschnappt                |
| Suitable for mounting type               | mounting rail, (EN 60715) |
| Height                                   | 90 mm                     |
| Width                                    | 12,4 mm<br>70 mm          |
| Depth                                    | 78 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                    |

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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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