MURR ELEKTRONIK
stay connected

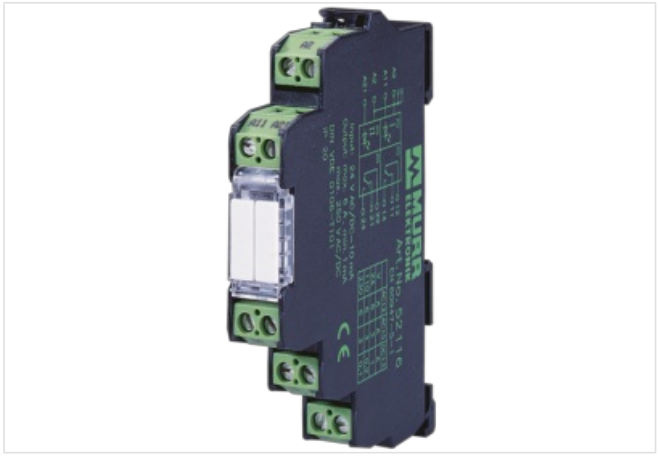
## MIRO TEMP. CONVERTER PT100 - 2 /3-LEAD METHOD

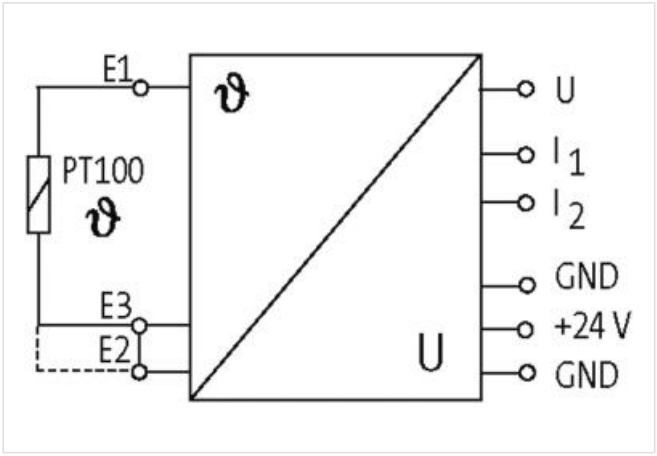
IN: 0°C..+600°C - OUT:0..10 V / (0)4..20 mA

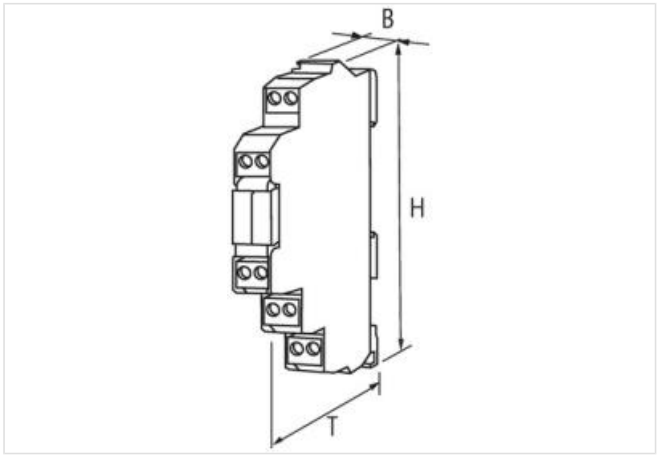
INPUT: 0...600 °C
Screw terminals
Murrelektronik's temperature converters convert a temperature into the usual signal variables (0...10 V, 4...20 mA, 0...20 mA) in conjunction with a PT100 temperature sensor (IEC 751/ EN 60751). For this purpose, the MTW modules supply a constant current which causes 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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Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-03-29

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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 | 4048879028202 |
| 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 10** | |
| Connection type 1 | X1 |
| Connection type 2 | X2 |
| Connection type 3 | X3 |
| Connection type 4 | X4 |
| Connection type 5 | X5 |
| Connection | Screw terminals SK |
| Family construction form | terminal |
| Gender | female |
| Color contact carrier | green |
| No. of poles | 2 |
| PIN 1 | n.c. |
| PIN 2 | E 1 |
| Connection | Screw terminals SK |
| Family construction form | terminal |
| Gender | female |
| Color contact carrier | green |
| No. of poles | 2 |

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| | |
|---|---|
| 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 | I 2 |
| PIN 2 | I 1 |
| 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 | E 1 |
| 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 |
| PIN 1 | I 1 |
| PIN 2 | I 2 |

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