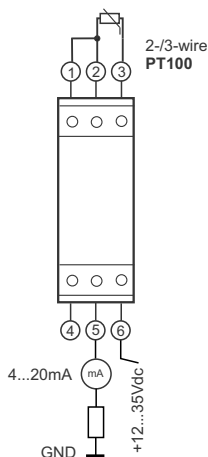


# MU-PT100-I420 Analog PT100 Temperature-Transmitter

## TECHNICAL DATA

|                                         |                                                          |
|-----------------------------------------|----------------------------------------------------------|
| <b>Input:</b>                           | PT100, 2 or 3-wire connection                            |
| <b>Sensor type:</b>                     | PT100 (DIN EN 60751)                                     |
| <b>Measuring range:</b>                 | <b>the label:</b> for example. 0...200°C or -50...+100°C |
| <b>Output:</b>                          | 4 ... 20mA                                               |
| <b>Supply voltage:</b>                  | 12 ... 35VDC, reverse polarity protected                 |
| <b>Transfer characteristic:</b>         | temperature linear                                       |
| <b>Direct current:</b>                  | max. 25mA + Load current                                 |
| <b>Wire resistance:</b>                 | max. 50Ω (supply voltage 8V)                             |
| <b>Supply voltage min.:</b>             | min. 8V                                                  |
| <b>Linearity error:</b>                 | max. 0,05%                                               |
| <b>Accuracy:</b>                        | max. 0,1%                                                |
| <b>Operating temperature range:</b>     | 0... 50°C                                                |
| <b>Output signal on sensor failure:</b> | < 3mA or > 24mA                                          |
| <b>Mounting:</b>                        | 35 mm-rail mounting                                      |
| <b>Connection terminals:</b>            | Screw terminals with wire protection, 0,2..2,5 mm²       |
| <b>Dimensions:</b>                      | 75 x 15 x 53 mm (h x w x d)                              |
| <b>Material:</b>                        | Polycarbonate                                            |
| <b>Housing:</b>                         | EMG15                                                    |
| <b>Weight:</b>                          | ca. 40g                                                  |



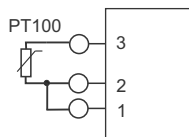
The output current follows linear at the input Temperature signal. The current tap of the output signal is in series between the terminals 5 and 6. Between the sensor and the supply and output current don't be galvanic isolated connection.

### Supply voltage:

Clamp 5: Current Loop  
Clamp 6: +12...35Vdc

**Current output 4...20mA:** Current loop between the terminals 5 & 6

## Input connection diagram



In the two-wire circuit, the resistance of the cable in the measuring result. Therefore, this circuit can be selected only for short lines or low accuracy requirements. Between the terminals 1 and 2 at the transmitter a bridge must be clamped.

up to date: 02/2025, modification reserved and can be change any time previous notice !