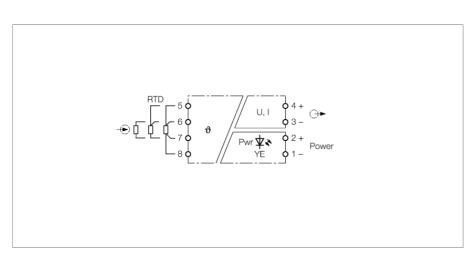


## Temperature measuring amplifier 1-channel IMS-TI-PT100/24V



The 1-channel temperature measuring amplifier IMS-TI-Pt100/24V is designed to evaluate the temperature-dependent changes of Pt100 RTDs, to isolate them galvanically and to output them as temperature-linear voltage or current signals of 0...10 V, 0...20 mA or 4...20 mA.

Alternatively, Pt100 RTDs in 2, 3 or 4-wire technology can also be operated at the input circuit of the measuring amplifier.

The number of Pt100 wires, the transmission characteristic (0...20 mA, 4...20 mA or 0...10 V) as well as the measuring range are adjusted via DIP switch.

The device offers wire-break and short-circuit monitoring. In the event of error, 12 V or 22 mA are provided at the output and the error is additionally signalled by the flashing power LED.

The following measuring ranges can be adjusted:

-50...+150 °C

0...+100 °C

0...+200 °C

In the event of error (wire-break or short-circuit), 12 V or 22 mA are provided at the output and the error is additionally signalled by the flashing power LED.

The IM34 temperature measuring amplifiers from TURCK offer more solutions for applications with other measuring ranges and temperature probes. Connection of temperature probe Pt100

- Output circuit: 0/4...20 mA or 0...10 V
- Accuracy < 0.3% of full scale</p>
- Complete galvanic isolation
- Input reverse-polarity protected
- 6.2 mm width





## Temperature measuring amplifier 1-channel IMS-TI-PT100/24V



114.5

	Dimensions
7504012	
24 VDC	
16.830 VDC	
$\leq$ 0.32 W	
$\leq$ 5 mV <sub>ss</sub>	Ł
-50150°C; 0100°C; 0200°C	
$\geq$ 1000 k $\Omega$	
0/420 mA	
010 V	
$\geq$ 1 k $\Omega$	
$\leq$ 0.4 k $\Omega$	
≤ 30 ms	
≤ 30 ms	
$\leq$ 0.3 % of full scale	
$\leq$ 0.00015 % of full scale/K	
1.5 kV	
yellow	
IP20	
V-0	
5	
0.5 NM	
	16.830 VDC   ≤ 0.32 W   ≤ 5 mV <sub>s</sub> -50150°C; 0100°C; 0200°C   ≥ 1000 kΩ   0/420 mA   010 V   ≥ 1 kΩ   ≤ 0.4 kΩ   ≤ 30 ms   ≤ 0.3 % of full scale   ≤ 0.00015 % of full scale/K   1.5 kV   yellow   IP20