Intelligent interface modules



Temperature modules for PT 100 Sensors

MTW 12,4 2- 3-wire MTW 12,4 4-wire



Circuit diagram	Input Output	Input	Output
	PT 100 0 0 0 0 11 0 12 0 6ND 0 +24 V 0 6ND	PT 100 0 E2 E3 E3	U,I — O U — O I 1 — O I 2 — O SND — O +24 V — O GND

Ordering data		ArtNo.	ArtNo.
INPUT	spring clamp/screw terminals	spring clamp/screw terminals	
± 50 °C		6644330	6644340
− 50150 °C		6644331	6644341
0100 °C		6644332	6644342
0150 °C		6644333	6644343
0200 °C		6644334	6644344
0300 °C		6644335	6644345
0600 °C		6644336	6644346

Technical data	
Supply voltage range	1830 V DC, smoothed
Supply current	max. 80 mA
Cable resistance (without PT100)	for 3- and 4-wire technology max. 100 Ohm
Output signals	at 010 V DC max. 25 mA, overload protected
	at 420 mA max. 500 0hm
	at 020 mA max. 500 0hm
Tolerance	\pm 1 % from end value
Temperature range	0+60 °C
Mounting method	DIN-rail mounting to EN 50022
Dimensions H x W x D	90 x 12.4 x 65 mm
Description	
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The Murrelektronik temperature converter module works in conjunction with a temperature sensor PT100 (IEC 751/EN 60751) and converts the output from the sensor into a standard signal format of (0...10 V, 0...20 mA).

The MTW module supplies a constant current to the PT100 resistor across, which develops a variable voltage.

This will be measured, linearized and converted to the output signal at the OUT terminals.

All three signals can be used at the same time.

The 2-wire technology allows short distances between the MTW and the PT100 sensor to be covered, i.e. <5 m. For longer distances, 3-wire technology compensates for the cable resistance. For three wire technology, remove the bridge between 2 and 3. For the greatest accuracy, 4-wire technology compensates for both the outgoing and incoming cables which may have differing resistances or lengths.

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To order screw terminal option omit 66 from the part number.

¹⁾ 0° ... 100°C to 0 ... 10 V DC or 4 ... 20 mA with 0.1 % precision on **Art.-No. 446098** approx.. **446099** on request.