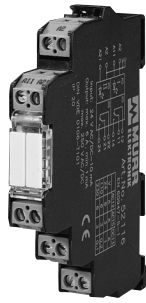
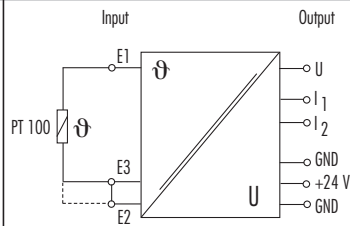


Temperature modules for PT100 sensors

MTW 12.4 2-/3-wire



Circuit diagram



Ordering data

INPUT	spring clamp/screw terminals	Art.-No.
-50 ... +50 °C		6644330
-50 ... +150 °C		6644331
0 ... 100 °C		6644332
0 ... 200 °C		6644334
0 ... 600 °C		6644336

Technical data

Supply voltage range	18...30 V DC, smoothed
Supply current	max. 80 mA
Cable resistance (without PT100)	at 3-wire technology max. 100 Ohm
Output signal	at 0...10 V DC max. 25 mA, overload protected
	at 4...20 mA max. 500 Ohm
	at 0...20 mA max. 500 Ohm
Tolerance	± 1 % from end value
Temperature range	0...+60 °C
Mounting method	DIN-rail mounting to EN 60715
Dimension	H x W x D 90 x 12.4 x 65 mm

Description

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 or 4...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.

Notes

For screw-type terminal connection, the item number changes from 6644... in 44... (e.g. prefix 66 is dropped)