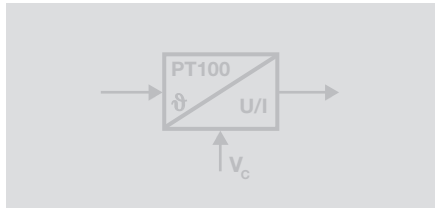
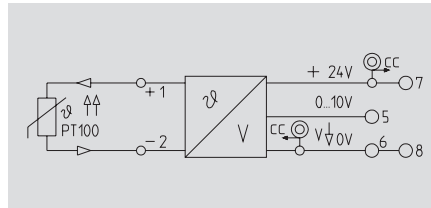


**RTD, 2-wire converter**

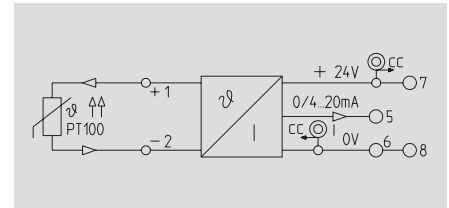
- 2-conductor system
- Adjustable temperature range  
-200°C...+800°C
- Adjustable output range
- Power supply can be cross-connected using plug-in jumpers.
- No galvanic isolation between input and output circuits



**PT100 / 2 0...10 V**



**PT100/2 0 (4)...20 mA**



**Technical data**

<b>Input</b>
Sensor
Sensor supply
<b>Output</b>
Output voltage / Output current
Load impedance, voltage/current
<b>General data</b>
Supply voltage / Current consumption
Ambient temperature / Storage temperature
Accuracy
Approvals
Standards
EMC standards

PT100/2-wire
1.45 mA
0...10 V /
≥ 1 kΩ /
24 V DC ± 20 % / < 38 mA @ I <sub>OUT</sub> = 20 mA
0 °C...+55 °C / -20 °C...+85 °C
± 0.5 % of measuring range
cULus; CSA; CE
EN 50178, EN 60751, IEC751
EN 55011, EN 61000-6

PT100/2-wire
1.45 mA
/ 0(4)...20 mA
/ ≤ 500 Ω
24 V DC ± 20 % / < 48 mA @ I <sub>OUT</sub> = 20 mA
0 °C...+55 °C / -20 °C...+85 °C
± 0.5 % of measuring range
cULus; CSA; CE
EN 50178, EN 60751, IEC751
EN 55011, EN 61000-6

<b>Dimensions</b>	
Clamping range (nominal / min. / max.)	mm <sup>2</sup>
Length x width x height	mm
<b>Note</b>	

<b>Screw connection</b>	<b>Tension clamp connection</b>
2.5 / 0.5 / 2.5	1.5 / 0.5 / 2.5
92.4 / 12.5 / 112.4	92.4 / 12.5 / 112.4

<b>Screw connection</b>	<b>Tension clamp connection</b>
2.5 / 0.5 / 2.5	1.5 / 0.5 / 2.5
92.4 / 12.5 / 112.4	92.4 / 12.5 / 112.4

**Ordering data**

Adjustable from -200...+800°C	Screw connection
Adjustable from -200...+800°C	Tension clamp connection
Special adjustment	Screw connection
Special adjustment	Tension clamp connection
0...100 °C	Screw connection

Type	Qty.	Order No.
WTS4 PT100/2 V 0-10V	1	8432180000
WTZ4 PT100/2 V 0-10V	1	8432190000
WTS4 PT100/2 V 0-10V variabel	1	8432189999
WTZ4 PT100/2 V 0-10V variabel	1	8432199999
WTS4 PT100/2 V 0-10V 0...100C	1	8432180001

Type	Qty.	Order No.
WTS4 PT100/2 C 0/4-20mA	1	8432210000
WTZ4 PT100/2 C 0/4-20mA	1	8432220000
WTS4 PT100/2 C 0/4-20mA variabel	1	8432219999
WTZ4 PT100/2 C 0/4-20mA variabel	1	8432229999
WTS4 PT100/2 C 4-20mA 0...100C	1	8432210011

**Note**

Specify temperature range for special calibrations.

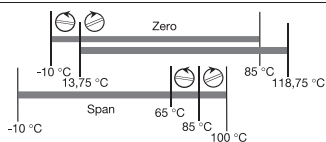
Cross-connectors for power supplies and markers - refer to WAVESERIES accessories

**Applications**

**Example for Zero and Span**

**Temperature adjustment:**

Tmin	-10 °C
Span	75...110 °C
Span	95 °C
Adjustment of Span	+ 25 %



**Temperature coefficient**

Measurement range ≥ 200 K ≤ 200 ppm / °C (typ. 80 ppm / °C)  
 100K ≤ Measurement range < 200K ≤ 250 ppm / °C (typ. 100 ppm / °C)  
 40K ≤ Measurement range < 100K ≤ 500 ppm / °C (typ. 200 ppm / °C)

**Aids**

- Voltage supply 24 Vdc, 50 mA
- Simulator for PT 100 or precision-resistance-decade
- Ampere-voltmeter which can be calibrated to an accuracy of >0.1% of the end value.

**Switch position/setting options**

Tmin	1	2	3	Span	4	5	6
0 °C	■	■	■	40 ... 50 °C	■	■	■
-10 °C	■	■	□	50 ... 75 °C	■	■	□
-20 °C	■	□	■	75 ... 110 °C	■	■	■
-40 °C	■	□	□	110 ... 165 °C	■	□	□
-60 °C	□	■	■	165 ... 245 °C	□	■	■
-80 °C	□	■	□	245 ... 360 °C	□	■	□
-100 °C	□	□	■	360 ... 540 °C	□	□	■
-200 °C	□	□	□	540 ... 800 °C	□	□	□

Output 1)	PT 100			
Range	7	8	9	10
0 ... 20 mA	□	2 - wire	■	■
4 ... 20 mA	■	3 - wire	■	■
		4 - wire	□	□

1) only modules with current output

■ = on  
□ = off