

**WTZ4 PT100/2 C 0/4-20mA**
**Weidmüller Interfaces GmbH & Co. KG**

Postfach 3030

32760 Detmold

Tel. +49 5231 14-0

Fax. +49 5231 14-2083

[info@weidmuller.com](mailto:info@weidmuller.com)
[www.weidmuller.com](http://www.weidmuller.com)

Do not use product for  
new developments, Only  
remaining stock available



RTD temperature signal converters for connecting resistance temperature sensors and analogue DC current or voltage outputs.

A variety of resistance thermometers (e.g., PT100) are used to measure temperature in an industrial environment. These are used with 2-, 3-, or 4-wire technology.

We distinguish here between PTC and NTC thermistors. For an exact temperature measurement, the resistance value must be logged, linearised and converted into an analogue signal proportional to the temperature. Signal isolating converters carry out these important functions. They isolate signals between the harsh industrial environments and the downstream electronics. Furthermore, they compensate for potential differences caused by long cable lengths. Sensor-related inadequacies such as cold joints and linearity errors are also minimised.

**General ordering data**

Version	RTD transformer, PT100, 2-conductor connection, Configurable, Input : Temperature, PT100 (2-wire), Output : 0(4)-20 mA
Order No.	<a href="#">8432220000</a>
Type	WTZ4 PT100/2 C 0/4-20MA
GTIN (EAN)	4032248110391
Qty.	1 pc(s).

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## Technical data

## Dimensions and weights

Depth	112.4 mm	Depth (inches)	4.425 inch
Width	12.5 mm	Width (inches)	0.492 inch
Length	92.4 mm	Length (inches)	3.638 inch
Net weight	77.4 g		

## Temperatures

Storage temperature	-20 °C...85 °C	Operating temperature	0 °C...55 °C
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## Environmental Product Compliance

REACH SVHC	Lead 7439-92-1	SCIP	c2a21576-d875-4548-ae68-5e7f85ddf0c7
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## Input

Number of inputs	1	Sensor	PT100 (2 wire)
Sensor supply	1.45 mA	Temperature input range	Adjustable from -200...+800°C

## Output

Load impedance current	≤ 500 Ω	Number of outputs	1
Output current	0...20 mA, 4...20 mA		

## General data

Accuracy	± 0.5 % of measuring range	Configuration	DIP switch, Potentiometer, and PT100-Simulator
Current consumption	< 48 mA @ I <sub>OUT</sub> = 20 mA	Current-carrying capacity of cross-connect.	≤ 2 A
Galvanic isolation	Without isolation	Input/Output	PT100/ 0(4)...20 mA
Linearity	Yes	Rail	TS 35
Temperature coefficient	Measuring range ≥ 200 K: &le; 200 ppm/K (typ. 80 ppm/K) 100 K < = measuring range < 200 K: < 250 ppm/K (typ. 100 ppm/K)	Type of connection	Tension-clamp connection
Voltage supply	24 V DC ± 20 %		

## Insulation coordination

EMC standards	EN 55011, EN 61000-6	Galvanic isolation	Without isolation
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## Connection data

Type of connection	Tension-clamp connection	Stripping length, rated connection	7 mm
Clamping range, rated connection	1.5 mm <sup>2</sup>	Clamping range, min.	0.5 mm <sup>2</sup>
Clamping range, max.	2.5 mm <sup>2</sup>		

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**Technical data**

**Classifications**

ETIM 6.0	EC002919	ETIM 7.0	EC002919
ETIM 8.0	EC002919	ECLASS 9.0	27-21-01-29
ECLASS 9.1	27-21-01-29	ECLASS 10.0	27-21-01-29
ECLASS 11.0	27-21-01-29	ECLASS 12.0	27-21-01-29

**Tender specification sheets**

Long specification

Short specification

**PT100 temperature measuring transformer, configured with DIP switches, 2-wire connection technology**

RTD measurement  
isolating transformer  
in 12.5 mm width with  
external power supply,  
for transmitting PT100- 2-  
wire signals.  
Input temperature range  
**-200...+800 °C.**  
Analogue DC signals (0(4)  
to 20 mA) are available on  
the output side.  
Zero/span compensation  
with potentiometer.  
Add-on housing for TS35  
rail mounting  
Dimensions: L/W/H 92.4/  
12.5/ 112.4 mm  
Tension-clamp  
connection / Nominal  
cross-section 1.5 mm<sup>2</sup>  
Protection degree: IP 20  
Input PT100, 2-wire Output  
0/4...20 mA Load  
resistance Transmission  
error typ. 200 ppm / °C  
Auxiliary power 24  
VDC +/- 20 % Ambient  
temperature range 0°C...  
+55 °C  
Isolation no electrical  
isolation Approvals cULus,  
CSA

Type **WTZ4 PT100/2 C  
0/4-20mA**

**PT100 temperature measuring transformer, configured with DIP switches, 2-wire connection technology**

RTD measurement  
isolating transformer  
in 12.5 mm width with  
external power supply, for  
transmitting  
PT100 2-wire signals.  
Input temperature range  
**-200...+800 °C.**  
Analogue DC signals (0(4)  
to 20 mA) are available on  
the output side.  
Zero/span compensation  
with potentiometer.

**Important note**

Product information

This product will soon be replaced by a new product.  
Please do not use with new systems. Please contact our technical support.

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**Technical data**

**Approvals**

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate no. (cULus)	E141197

**Downloads**

Approval/Certificate/Document of Conformity	<a href="#">Declaration of Conformity</a>
Engineering Data	<a href="#">CAD data – STEP</a>
Engineering Data	<a href="#">EPLAN, WSCAD</a>
Product Change Notification	<a href="#">20220218 Technical change - WAVE series' signal conditioners WS WZ</a>
User Documentation	<a href="#">Instruction sheet</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>
Brochures	