

WTZ4 PT100/2 V 0-10V

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
 D-32758 Detmold
 Germany

www.weidmueller.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 : 0-10 V
Order No.	8432190000
Type	WTZ4 PT100/2 V 0-10V
GTIN (EAN)	4032248110377
Qty.	1 Stück

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Technische Daten

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	118 g		

Temperatures

Storage temperature	-20 °C...85 °C	Operating temperature	0 °C...55 °C
Operating temperature, min.	0 °C	Operating temperature, max.	55 °C

Probability of failure

SIL in compliance with IEC 61508	None
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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 voltage, note	0...10 V	load impedance voltage	≥ 1 kΩ

General data

Accuracy	± 0.5 % of measuring range	Configuration	DIP switch, Potentiometer, and PT100-Simulator
Current consumption	< 38 mA @ I _{OUT} = 20 mA	Current-carrying capacity of cross-connect.	≤ 2 A
Galvanic isolation	Without isolation	Input/Output	PT100/ 0...10 V
Linearity	Yes	Rail	TS 35
Temperature coefficient	Measuring range ≥ 200 K: ≤ 200 ppm/K (typ. 80 ppm/K) 100 K ≤ measuring range <200 K: <250 ppm/K (typ. 100 ppm/K)	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 ²	Clamping range, min.	0.5 mm ²
Clamping range, max.	2.5 mm ²		

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

Erstellungs-Datum May 26, 2023 3:41:05 PM CEST

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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...10 V 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 mm²
Protection degree: IP 20
Input PT100, 2-wire
Output 0...10 V
Load resistance > 1 kOhm
Transmission error < 0,5 % v. E. typ.
200 ppm / °C
Auxiliary power 24 VDC +/- 20 %
Ambient temperature range 0°C...+55 °C
Isolation no electrical isolation
Approvals cULus, CSA

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WTZ4

Environmental Product Compliance

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

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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.

Approvals

Approvals



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

Downloads

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

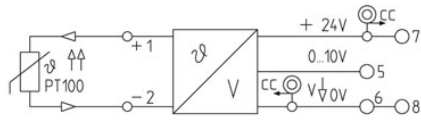
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Zeichnungen

Electric symbol



Similar to illustration

