

WAVESERIES
WTS4 PT100/4 V 0-10V**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

D-32758 Detmold

Germany

Fon: +49 5231 14-0

Fax: +49 5231 14-292083

www.weidmueller.com



The configurable WTS4/WTZ4 PT100 temperature signal converter with external power supply in 12.5 mm width, for recording and transforming PT100 sensors in standardised DC current and voltage signals.

2-, 3- and 4-wire PT100 sensors can be connected on the input side. The temperature ranges can be selected using DIP switches.

The input and output circuits are not electrically isolated from each other.

The output is used for the 24 VDC power supply.

The WTS4/WT/4 Thermo comes with either a screw or tension-clamp wire connection.

The 24 VDC supply voltage can be bridged using pluggable ZQV 2,5N jumpers on the module side.

General ordering data

Type	WTS4 PT100/4 V 0-10V
Order No.	8432240000
Version	RTD transformer, Screw connection
GTIN (EAN)	4032248056897
Qty.	1 pc(s).

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Technical data
Dimensions and weights

Length	92.4 mm	Width	12.5 mm
Depth	112.4 mm	Net weight	124 g

Temperatures

Operating temperature	0 °C...+55 °C	Storage temperature	-20 °C...+85 °C
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Input

Sensor supply	1.45 mA	Supply voltage	24 V DC $\pm$ 20 %
Number of inputs	1	Temperature input range	Adjustable from -200...+800 °C
Sensor	PT100 / 2-/3-/4-wire		

Output

load impedance voltage	$\geq 1 \text{ k}\Omega$	Number of outputs	1
Output voltage, note	0...10 V		

General data

Accuracy	100K $\leq$ MB < 600K: 0.1 %; MB $\geq$ 600K: 0.2 %; of measuring range	Configuration	DIP switch, Potentiometer
Current consumption	< 38 mA @ I _{OUT} = 20 mA	Current-carrying capacity of cross-connect.	$\leq 2 \text{ A}$
Galvanic isolation	Without isolation	Input/Output	PT100/ 0...10 V
Linearity	Yes	Mounting rail	TS 35
Supply voltage	24 V DC $\pm$ 20 %	Temperature coefficient	Measuring range $\geq 200 \text{ K}$: $\leq 200 \text{ ppm/K}$ (typically 80 ppm/K) 100 K $\leq$ measuring range < 200 K: $\leq 225 \text{ ppm/K}$ (typically 90 ppm/K)
Type of connection	Screw connection		

Insulation coordination

EMC standards	EN 55011, EN 61000-6	Galvanic isolation	Without isolation
Standards	DIN EN 50178, DIN EN 61000-4-2		

Classifications

ETIM 3.0	EC001774	UNSPSC	30-21-18-01
eClass 5.1	27-20-02-06	eClass 6.2	27-20-02-06
eClass 7.1	27-20-02-06		

Product information

Descriptive text ordering data	Specify temperature range for special calibrations.
Descriptive text accessories	Cross-connector for power supplies and markers – refer to Accessories

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Technical data

Approvals

Approvals



ROHS

Conform

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Package insert	instruction sheet.pdf
Declaration of Conformity	Declaration of Conformity.pdf
EPLAN	8432240000.ema
3-D model	

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Drawings

Electric symbol

