

WAVESERIES WTS4 THERMO

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 Thermo signal converter with external power supply in 12.5 mm width: for recording, linearising and transforming thermal voltages into standardised DC current and voltage signals. Isolated thermocouples of types K, J, T, E, N, R, S and B can be connected on the input side, in compliance with IEC584.

The input and output parameters (e.g. sensor type, temperature range and standardised output signal) can be configured using the 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 THERMO
Order No.	8432300000
Version	Signal converter/disconnector
GTIN (EAN)	4032248056910
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	78.2 g

Temperatures

Operating temperature	0 °C...+55 °C	Storage temperature	-20 °C...+85 °C
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Probability of failure

MTTF	317 Years
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Input

Supply voltage	24 V DC $\pm$ 20 %	Number of inputs	1
Temperature input range	-200...+1820 °C	Sensor	Thermo element (IEC 584) type: K,J,T,E,N,R,S,B

Output

Wire break detection	LED flashing (output value: > 20 mA, >10 V)	cold junction compensation	Yes
Number of outputs	1	load impedance current	$\leq$ 500 Ω
Offset voltage	max. 0.05 V	Offset current	max. 100 μ A
Status indicator	Module active: LED on/ wire breakage: LED flashing/ Error: LED off	Output voltage, note	0...10 V
Output current	0(4)...20 mA		

General data

Configuration	DIP switch	Current consumption	< 38 mA @ I_{OUT} = 20 mA
Current-carrying capacity of cross-connect.	$\leq$ 2 A	Galvanic isolation	2-way isolator
Input/Output	Thermocouple type: K, J, T, E, N, R, S, B / 0(4)...20 mA; 0...10 V	Linearity	Yes
Mounting rail	TS 35	Step response time	without filter: 1.1 s; with filter: 6 s
Supply voltage	24 V DC $\pm$ 20 %	Temperature coefficient	$\pm$ (200 ppm from the span + 0.075 K)/K

Insulation coordination

EMC standards	EN 55011, EN 61000-6	Galvanic isolation	2-way isolator
Standards	DIN EN 50178, DIN EN 61000-4-2		

Classifications

eClass 6.2	27-20-02-06	eClass 7.1	27-20-02-06
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Product information

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	8432300000.ema

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Drawings

Electric symbol

