

WAVESERIES WTZ4 PT100/3 C 0/4-20mA

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Do not use product for new
developments



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

Type	WTZ4 PT100/3 C 0/4-20mA
Order No.	8432160000
Version	RTD transformer, Tension-clamp connection
GTIN (EAN)	4032248110179
Qty.	1 pc(s).

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Technical data**Dimensions and weights**

Length	92.4 mm	Length (inches)	3.638 inch
Width	12.5 mm	Width (inches)	0.492 inch
Depth	112.4 mm	Depth (inches)	4.425 inch
Net weight	123 g		

Temperatures

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

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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Input

Number of inputs	1	Sensor	PT100/3-wire
Sensor supply	1.45 mA	Temperature input range	Adjustable from -200...+800°C

Output

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

General data

Accuracy	± 0.5 % of measuring range	Configuration	DIP switch, Potentiometer
Current consumption	< 48 mA @ I _{OUT} = 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: ≤ 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		

Data sheet

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Classifications

ETIM 3.0	EC001774	ETIM 4.0	EC001774
ETIM 5.0	EC001774	ETIM 6.0	EC002919
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
eClass 8.1	27-20-02-06	eClass 9.0	27-21-01-29
eClass 9.1	27-21-01-29		

Product information

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

Downloads

Approval/Certificate/Document of Conformity	Declaration of Conformity
Brochure/Catalogue	CAT 4.1 ELECTR 16/17 EN
Engineering Data	EPLAN, WSCAD
User Documentation	Instruction sheet

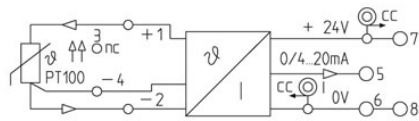
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Drawings

Electric symbol



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