

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-/3-wire connection technology, Configurable, Input: Temperature, PT100 (3- wire), Output: 0-10 V Order No. 8432130000 Type WTZ4 PT100/3 V 0-10V GTIN (EAN) 4032248110131 Qty. 1 pc(s).			
Type WTZ4 PT100/3 V 0-10V GTIN (EAN) 4032248110131	Version	0,1	
GTIN (EAN) 4032248110131	Order No.	<u>8432130000</u>	
· · · · ·	Туре	WTZ4 PT100/3 V 0-10V	
Oty. 1 pc(s).	GTIN (EAN)	4032248110131	
	Qty.	1 pc(s).	



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Technical data

Dimensions	and	l weights

110.4	D 11 (1 1)	4.405 : 1
		4.425 inch
		0.492 inch
	Length (inches)	3.638 inch
120 g		
-20 °C85 °C	Operating temperature	0 °C55 °C
pliance		
Lead 7439-92-1	SCIP	c2a21576-d875-4548- ae68-5e7f85ddf0c7
1	Sansor	PT100 (3 wire)
<u> </u>		Adjustable from -200
1.45 mA	remperature input range	+800°C
1	Output valtage note	010 V
≥ 1 kΩ	Output voltage, note	010 V
± 0 = 0/ of management	Configuration	DIP switch, Potentiometer,
range		and PT100-Simulator
< 38 mA @ I _{OUT} = 20 mA	Current-carrying capacity of cross- connect	≤ 2 A
Without isolation		PT100/ 010 V
Yes	Rail	TS 35
Measuring range ≥ 200 K: ≤ 200 ppm/K (typ. 80 ppm/K) br/>100 K < = measuring range < 200 K: < 250 ppm/K (typ. 100 ppm/K)	Type of connection	Tension-clamp connection
24 V DC ± 20 %		
EN 55011, EN 61000-6	Galvanic isolation	Without isolation
		_
		7 mm
	Clamping range, min.	0.5 mm ²
2.5 mm²		
	Lead 7439-92-1 1 1.45 mA 1 ≥ 1 kΩ ± 0.5 % of measuring range < 38 mA @ I _{OUT} = 20 mA Without isolation Yes Measuring range ≥ 200 K: ≤ 200 ppm/K (typ. 80 ppm/K) > = measuring range < 200 K: < 250 ppm/K (typ. 100 ppm/K) 24 V DC ± 20 %	12.5 mm 92.4 mm 120 g Width (inches) Length (inches) Length (inches) Length (inches) Length (inches) Length (inches) Length (inches) Length (inches) Length (inches) SCIP SCIP 1 Sensor Temperature input range 1 Sensor Temperature input range Configuration Current-carrying capacity of cross-connect. Input/Output Rail Type of connection K < 250 ppm/K (typ. 100 k < = measuring range < 200 k: & amp.le; 200 ppm/K (typ. 100 ppm/K) 24 ∨ DC ± 20 % Tension-clamp connection 1.5 mm² Stripping length, rated connection Clamping range, min.



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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

WTZ4

PT100 temperature measuring transformer, configured with DIP switches, 3-wire connection technology RTD measurement isolating transformer in 12.5 mm width with external power supply, for transmitting PT100-3-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, 3-wire Output

O...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

Type PT100/3 V 0-10V isolating transformer in 12.5 mm width with external power supply, for transmitting PT100-3-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.

PT100 temperature measuring transformer,

configured with DIP

RTD measurement

connection technology

switches, 3-wire

Creation date September 18, 2022 3:39:34 AM CEST



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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	EPLAN, WSCAD
Product Change Notification	20220218 Technical change - WAVE series' signal conditioners WS WZ
User Documentation	<u>Instruction sheet</u>
Catalogues	Catalogues in PDF-format
Brochures	