

WTS4 PT100/3 C 0/4-20MA

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
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 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, Output : 0(4)-20 mA
Order No.	8432150000
Type	WTS4 PT100/3 C 0/4-20MA
GTIN (EAN)	4032248056880
Qty.	1 Stück
Delivery status	This article will no longer be available in the future.
Available until	2022-03-30
Alternative product	1375510000

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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	78.4 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

MTTF	451 Years
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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

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

Output (analogue)

Output current	0...20 mA, 4...20 mA
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General data

Accuracy	± 0.5 % of measuring range	Configuration	DIP switch, Potentiometer, and PT100-Simulator
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	Screw connection	Stripping length, rated connection	7 mm
Tightening torque, min.	0.4 Nm	Tightening torque, max.	0.5 Nm
Clamping range, rated connection	2.5 mm ²	Clamping range, min.	0.5 mm ²
Clamping range, max.	2.5 mm ²		

Erstellungs-Datum May 26, 2023 3:40:47 PM CEST

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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

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(4) to 20 mA) 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
 Screw connection / Nominal cross-section 2.5 mm²
 Protection degree: IP 20
 Input PT 100, 3-wire Output 0/4...20 mA Load resistance Transmission error typ. 200 ppm / °C
 Auxiliary power 24 VDC +/- 20 % Ambient temperature range 0°C... +55 °C
 Isolation no electrical isolation Approvals cULus, CSA

Type WTS4 PT100/3 C 0/4-20mA

Short specification

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(4) to 20 mA) are available on the output side.
Zero/span compensation with potentiometer.

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
SCIP	c6099607-b1cd-4fc8-8f5b-8c2defa73093

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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	WSCAD, EPLAN
User Documentation	Instruction sheet

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Zeichnungen

Electric symbol

