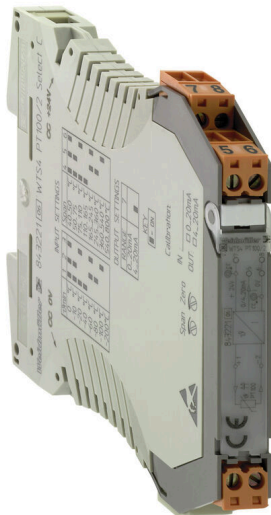


WTS4 PT100/3 C 0/4-20MA

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
 D-32758 Detmold
 Germany

www.weidmueller.com

Product is no longer available, Data sheet for information only



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 items
Delivery status	Discontinued
Available until	2022-03-30T00:00:00+02:00
Alternative product	ACT20M-RTI-AO-S

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Technical data

Approvals

Approvals



ROHS Conform

UL File Number Search [UL Website](#)

Certificate no. (cULus) E141197

Dimensions and weights

Depth	112.4 mm	Depth (inches)	4.4252 inch
Width	12.5 mm	Width (inches)	0.4921 inch
Length	92.4 mm	Length (inches)	3.6378 inch
Net weight	78.4 g		

Temperatures

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

MTTF	451 a
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Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	6c, 7a, 7cl
REACH SVHC	Lead 7439-92-1
SCIP	c6099607-b1cd-4fc8-8f5b-8c2defa73093

Input

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

Output

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

General data

Accuracy	± 0.5 % of measuring range	Protection degree	IP20
Supply voltage	24 V DC ± 20 %	Linearity	Yes
Current consumption	< 48 mA @ IOUT = 20 mA	Mounting 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)	Configuration	DIP switch, Potentiometer, and PT100-Simulator

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Technical data

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		

Classifications

ETIM 8.0	EC002919	ETIM 9.0	EC002919
ETIM 10.0	EC002919	ECLASS 14.0	27-21-01-29
ECLASS 15.0	27-21-01-29		

Tender specification sheets

Long specification	<p>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 PT100, 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</p>	Short specification	<p>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.</p>
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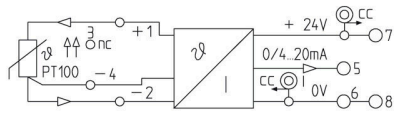
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Drawings

www.weidmueller.com

Electric symbol



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Accessories

Cross-connections



The distribution or multiplication of a potential to adjoining terminal blocks is realized via a cross-connection. Additional wiring effort can be easily avoided. Even if the poles are broken out, contact reliability in the terminal blocks is still ensured. Our portfolio offers pluggable and screwable cross-connection systems for modular terminal blocks.

General ordering data

Type	ZQV 2.5N/2 GE	Version
Order No.	1693800000	W-Series, Cross-connector, 24 A
GTIN (EAN)	40081908883621	
Qty.	60 ST	
Type	ZQV 2.5N/2 RT	Version
Order No.	1717900000	W-Series, Cross-connector, 24 A
GTIN (EAN)	4008190349288	
Qty.	60 ST	
Type	ZQV 2.5N/2 BL	Version
Order No.	1717990000	W-Series, Cross-connector, 24 A
GTIN (EAN)	4008190349295	
Qty.	60 ST	
Type	ZQV 2.5N/2 SW	Version
Order No.	1718080000	W-Series, Cross-connector, 24 A
GTIN (EAN)	4008190349301	
Qty.	60 ST	

Blank



WS markers are the perfect match for the W-series connectors. Thanks to their system compatibility, the WS tags can also be used with the I-series and the Z-series. The large marking surfaces do not only permit long character strings but also multi-line text. WS markers are ideal for labels with long, customised character strings. Thanks to the proven MultiCard format, printing with PrintJet CONNECT oder/or Plotter is possible.

- Can be fitted in strips or individually
- Markers in proven MultiCard format

For custom printing: Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

General ordering data

Type	WS 10/5 MC NE WS	Version
Order No.	1635000000	WS, Terminal marker, 10 x 5 mm, Pitch in mm (P): 5.00 Weidmueller,
GTIN (EAN)	4008190261948	Allen-Bradley, white
Qty.	720 ST	