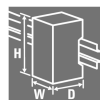
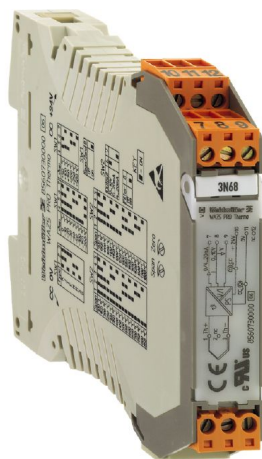


WAS5 PRO THERMO

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	TC isolating transformer, Configurable, Input : thermocouple, Output : I / U
Order No.	8560720000
Type	WAS5 PRO THERMO
GTIN (EAN)	4032248207336
Qty.	1 items
Delivery status	Discontinued
Available until	2023-06-30T00:00:00+02:00
Alternative product	ACT20M-UI-AO-S

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Technical data

Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate no. (cULus)	E141197
Certificate no. (cULusEX)	E223527

Dimensions and weights

Depth	112.4 mm	Depth (inches)	4.4252 inch
Width	17.5 mm	Width (inches)	0.689 inch
Length	92.4 mm	Length (inches)	3.6378 inch
Net weight	128.8 g		

Temperatures

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

MTTF	270 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	b25f3b7c-b874-4a4e-a8b2-4f423a7e2a65

Input

Sensor	Thermocouples: B, E, J, K, L, N, R, S, T, U	Number inputs	1
Line resistance in measuring circuit	50 Ω	Temperature input range	-200...+1820 °C

Output

Number of outputs	1	load impedance voltage	≥ 1 kΩ
Load impedance current	≤ 600 Ω	Wire break detection	LED flashing (output value: > 20 mA, >10 V)
Offset voltage	max. 0.05 V	Offset current	max. 100 µA
Output voltage, note	0...10 V	Fine adjustment	± 5% (switchable)
Output current	0...20 mA, 4...20 mA		

General data

Accuracy	Type K & J: -150°C...1200°C ±(3°C + 0,1% of range), Type T: -150°C...400°C ±(3°C + 0,1% of range), Type E: -150°C...1000°C ±(3°C + 0,1% of range), Type N: -150°C...1300°C ±(3°C + 0,1%	Protection degree	IP20
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Technical data

of range), Type R & S:
200°C...1760°C $\pm(6^{\circ}\text{C} + 0,1\%$ of range), Type B:
500°C...1820°C $\pm(6^{\circ}\text{C} + 0,1\%$ of range)

Status indicator	Module active: LED on/ wire breakage: LED flashing/Error: LED off	Supply voltage	24 V DC $\pm 20\%$
Linearity	Yes	Step response time	without filter: max. 1.4 s; with filter: max. 7.5 s
Mounting rail	TS 35	Power consumption	800...850...950 mW at IOUT = 20 mA
Configuration	DIP switch		

Insulation coordination

Impulse withstand voltage	4 kV	EMC standards	EN 55011, EN 61000-6
Surge voltage category	III	Pollution severity	2
Galvanic isolation	3-way isolator	Insulation voltage input or output/rail	4 kVeff / 1 min.
Insulation voltage input or output/supply	2 kVeff / 5 s	Insulation voltage	2 kVeff / 5 s
Rated voltage	300 V		

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		

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.
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Classifications

ETIM 6.0	EC002919	ETIM 7.0	EC002919
ETIM 8.0	EC002919	ETIM 9.0	EC002919
ETIM 10.0	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
ECLASS 13.0	27-21-01-29	ECLASS 14.0	27-21-01-29
ECLASS 15.0	27-21-01-29		

Tender specification sheets

Long specification	TC temperature measurement isolating transformer; configured with DIP switches TC-temperature measurement isolating transformer in 17.5 mm width with external power supply, for transmitting thermocouples (insulated version) types K, J, T, E, N, R, S and B according to IEC 584. Standard DC signals 0(4) to 20 mA / 0 to 10 V are	Short specification	TC temperature measurement isolating transformer; configured with DIP switches TC-temperature measurement isolating transformer in 17.5 mm width with external power supply, for transmitting thermocouples (insulated version) types K, J, T, E, N, R, S and B according to IEC 584. Standard DC signals 0(4) to 20 mA / 0 to 10 V are
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Technical data

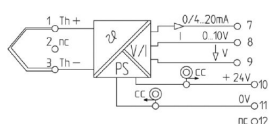
available on the output side.
 Internal cold-junction compensation
 Potentiometer for zero/ span compensation
 Add-on housing for TS35 rail mounting
 Dimensions: L/W/H 92.4/ 17.5/ 112.4 mm
 Screw connection /
 Nominal cross-section 2.5 mm²
 Protection degree: IP 20
 Input TC
 Type Type K, J, T, E, N, R, S
 Output
 0/4...20 mA

0...10 V
 Load resistance
 < 600 Ohm/ Strom/> 1 kOhm/ voltage
 Transmission error 0.2...0.3 0.8 % of input (depending on TC Type)
 Auxiliary power
 24 VDC +/- 25 %
 Power loss approx. 0.9 W
 Ambient temperature range
 0°C...+55 °C
 Isolation
 EN 50178, 3-way isolation up to 4 kV AC/DC of all circuits against each other
 Test voltage
 2 kV input
 against output against auxiliary power
 Rated voltage
 300 V AC/DC at overvoltage category III and pollution degree 2
 Approvals cULus, cULusEX
 Type
 WAS5 PRO Thermo

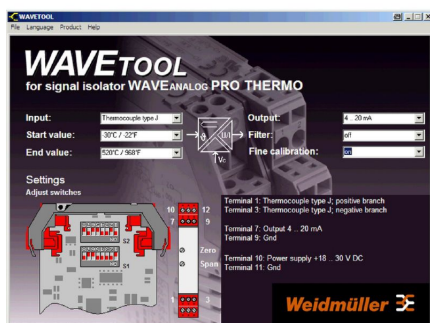
available on the output side.
 Internal cold-junction compensation
 Potentiometer is used for zero and span calibrations.

Drawings

Electric symbol



Similar to illustration



Screenshot example, Wave tool software

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Accessories

Cross-connections

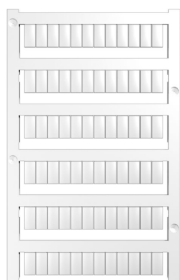


The distribution or multiplication of a potential to adjoining terminal blocks is realized via a cross-connection. Additional wiring effort can be easily avoided. Even if the poles are broken out, contact reliability in the terminal blocks is still ensured. Our portfolio offers pluggable and screwable 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)	4008190883621	
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.	1717900000	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	