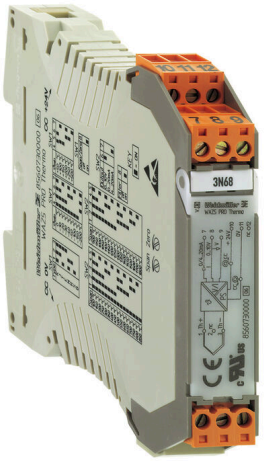
Data sheet

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
Last order date	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

Probability of failure

MTTF	270 a

Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	6c, 7a, 7cI
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 ±(6°C + 0,1% of range), Type B: 500°C...1820°C ±(6°C + 0,1% of range)		
Status indicator	Module active: LED on/ wire breakage: LED flashing/Error: LED off	Supply voltage	24 V DC ± 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 mm²	Clamping range, min.	0.5 mm²
Clamping range, max.	2.5 mm²		

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.

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		

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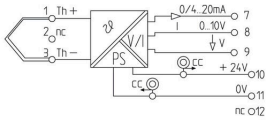
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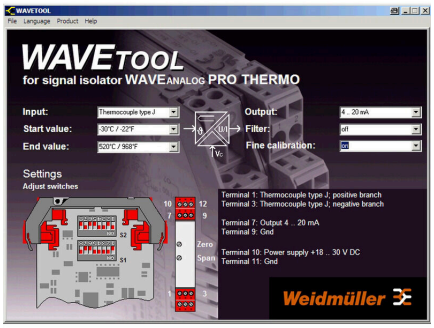
Drawings

Electric symbol



Similar to illustration





Screenshot example, Wave tool software

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