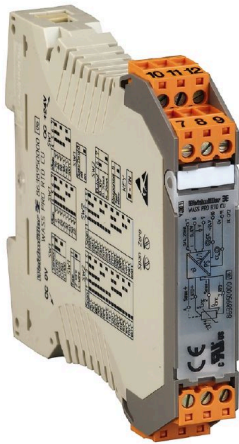


## WAS5 PRO RTD CU

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

[www.weidmueller.com](http://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 isolating transformer, 2-/3-/4- wire RTD, Configurable, Input : Temperature, CU, Output : 0(4)-20 mA, 0-10 V
Order No.	<a href="#">8638950000</a>
Type	WAS5 PRO RTD CU
GTIN (EAN)	4032248309917
Qty.	1 items
Delivery status	Discontinued
Available until	2022-12-31T00:00:00+01:00
Alternative product	<a href="#">ACT20P-PRO-RTCI-AO-DO-S</a>

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## Technical data

## Approvals

Approvals



ROHS	Conform
UL File Number Search	<a href="#">UL Website</a>
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	103.5 g		

## Temperatures

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

MTTF	267 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	Cu 10, Cu 25, Cu 50, Cu 100	Number inputs	1
Line resistance in measuring circuit	5 Ω Cu 10; 15 Ω Cu 25; 25 Ω Cu 50; 50 Ω Cu 100	Temperature input range	Adjustable from -200...+260°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	± 12.5% of FSR
Output current	0...20 mA, 4...20 mA		

## General data

Accuracy	Slow/fast step response time: 0.5% of measuring range or 0.5 K/ 1% of measuring range or 1 K	Protection degree	IP20
Status indicator	Module active: LED on/ wire breakage: LED flashing/Error: LED off	Supply voltage	24 V DC ± 20 %

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## Technical data

Linearity	Yes	Step response time	Fast: 1.2 s/ slow: 2.2 s
Mounting rail	TS 35	Power consumption	880...980...1030 mW at IOUT = 20 mA
Temperature coefficient		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 <sup>2</sup>	Clamping range, min.	0.5 mm <sup>2</sup>
Clamping range, max.	2.5 mm <sup>2</sup>		

### 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 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	<p>RTD measurement isolating transformer; configured with DIP switches</p> <p>RTD measurement isolating transformer in 17.5 mm width with external power supply, for transmitting and isolating 2-/3-/4-wire Cu10/ 25/ 50/ 100 signals.</p> <p>Analogue DC signals 0(4) to 20 mA / 0 to 10 V are available on the output side.</p> <p>Internal potentiometer is used for zero and span calibrations.</p> <p>Add-on housing for TS35 rail mounting</p> <p>Dimensions: L/W/H 92.4/ 17.5/ 112.4 mm</p> <p>Screw connection / Nominal cross-section 2.5 mm<sup>2</sup></p>	Short specification	<p>RTD measurement isolating transformer; configured with DIP switches</p> <p>RTD measurement isolating transformer in 17.5 mm width with external power supply, for transmitting and isolating 2-/3-/4-wire Cu10/ 25/ 50/ 100 signals.</p> <p>Analogue DC signals 0(4) to 20 mA / 0 to 10 V are available on the output side.</p> <p>Internal potentiometer is used for zero and span calibrations.</p>
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## Technical data

Protection degree: IP 20  
Input 3-/4-wire Cu 10, Cu  
25, Cu 50, Cu 100  
Output 0/4...20 mA  
0...10 V  
Load resistance < 600  
Ohm/ Strom/> 1 kOhm/  
voltage  
Transmission error < 0,8%  
v. E. (RTD)  
typ. 200 ppm / °C  
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 RTD Cu

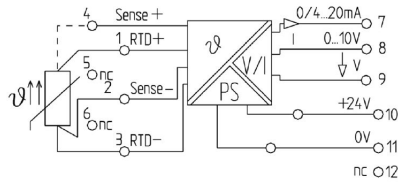
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Drawings

Electric symbol



Similar to illustration

