

## WAVESERIES WAS4 PRO DC/DC

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The configurable WAS4/WAZ4 PRO DC/DC: a U/I-DC-signal isolating converter with external power supply in 12.5 mm width, for transmitting and isolating analogue DC current signals ( $\pm 0.1 \dots \pm 100$  mA) and voltage signals ( $\pm 20$  mV... $\pm 200$  V).

Up to 440 fixed input and output parameters can be configured using the DIP switches and potentiometer (span/offset). The input/output channels and power supply are completely isolated with 4 kV.

Because of its 20...253 VAC/DC wide-range power supply, the PRO DC can be used in many applications regardless of its position.

The signal isolating converter features an adjustable transmission frequency (10 Hz/10 kHz), low power dissipation, and a wide temperature range (-10 °C to +70 °C).

The WAVETOOL software can be used as a universal setting aid. The WAVETOOL software found at [www.weidmueller.com](http://www.weidmueller.com) can be used for configuration. The PRO DC is optionally available with screw or tension-clamp wire connections. The signal isolating converter has international approvals (cULus, cULusEX, ATEX Zone2, GL) which enable it to be used worldwide for many explosive-risk applications.

### General ordering data

Delivery status	<b>This article will no longer be available in the future.</b>
Available until	2017-07-31
Type	WAS4 PRO DC/DC
Order No.	<a href="#">8560740000</a>
Version	Signal converter/insulator, Screw connection
GTIN (EAN)	4032248207350
Qty.	1 pc(s).
Alternative product	<a href="#">1481970000</a>

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**Technical data**
**Dimensions and weights**

Length	92.4 mm	Length (inches)	3.638 inch
Width	12.5 mm	Width (inches)	0.492 inch
Depth	112.4 mm	Depth (inches)	4.425 inch
Net weight	132.2 g		

**Temperatures**

Operating temperature	-10 °C...70 °C	Storage temperature	-40 °C...85 °C
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**Probability of failure**

MTBF	76 Years	MTTF	76 Years
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**Input**

Number of inputs	1	Input voltage	configurable, $\pm 20$ mV... $\pm 200$ V
Input resistance, voltage	approx. 1 M $\Omega$	Input current	configurable, $\pm 0.1$ mA... $\pm 100$ mA
Input resistance, current	< 5 mA: approx. 100 $\Omega$ ; >5 mA: approx. 5 $\Omega$		

**Output**

Number of outputs	1	Output voltage, note	0... $\pm 10$ V
Output current	0... $\pm 20$ mA	Adjustment range, zero point	$\pm 25$ % of the measuring span of selected output range
Adjustment range, amplification	0.33...3.30 x end value of selected output range	Cut-off frequency (-3 dB)	> 10 kHz/ < 10 Hz
load impedance voltage	$\geq 1$ k $\Omega$	load impedance current	$\leq 600$ $\Omega$
Offset voltage	10 mV	Offset current	20 $\mu$ A
Status indicator	Green LED	Displacement	-100%, -50%, 0%, 50%, 100% of measuring span

**General data**

Accuracy	< 0.2 %	Configuration	DIP switch and potentiometer, with reference voltage/current sources
Galvanic isolation	3-way isolator	Input/Output	configurable
Mounting rail	TS 35	Power consumption	ca. 1 W
Step response time	120 $\mu$ s at limiting-frequency setting > 10 kHz, 75 ms at limiting-frequency setting < 10 Hz	Supply voltage	22...230 V AC/DC +10 %
Temperature coefficient	$\leq 60$ ppm/K of final value	Type of connection	Screw connection

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**Technical data****Insulation coordination**

EMC standards	DIN EN 61326, EN 61000-6 /-2, EN 61709 (SN 29500) MTBF	Galvanic isolation	3-way isolator
Impulse withstand voltage	5 kV, 1.2/50 µs (IEC 255-4)	Insulation voltage	4 kV <sub>eff</sub>
Insulation voltage input or output/rail	4 kV <sub>eff</sub>	Insulation voltage input or output/supply	4 kV <sub>eff</sub>
Pollution severity	2	Rated voltage	600 V
Standards	DIN EN 50178, DIN EN 61000-4-2	Surge voltage category	III

**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, rated connection, min.	0.5 mm <sup>2</sup>
Clamping range, rated connection, max.	2.5 mm <sup>2</sup>		

**Classifications**

ETIM 3.0	EC001774	ETIM 4.0	EC002653
ETIM 5.0	EC002653	ETIM 6.0	EC002653
eClass 6.2	27-21-01-20	eClass 7.1	27-21-01-20
eClass 8.1	27-21-01-20	eClass 9.0	27-21-01-20
eClass 9.1	27-21-01-20		

**Product information**

Descriptive text accessories      Markers – refer to Accessories.

**Approvals**

Approvals



ROHS      Conform

**Downloads**

Package insert	<a href="#">instruction sheet.pdf</a>
Software	<a href="#">WaveTool.zip</a>
Declaration of Conformity	<a href="#">Declaration of Conformity.pdf</a>
	<a href="#">3-D model</a>

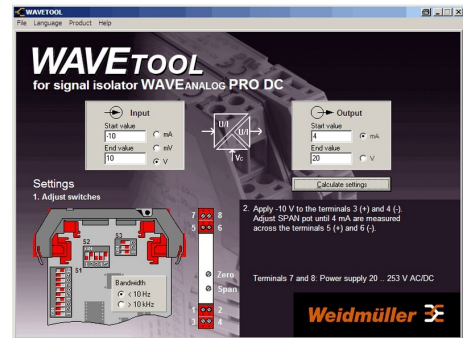
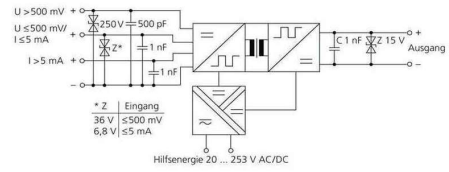
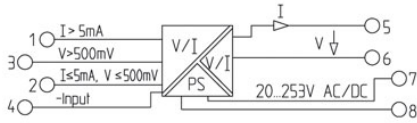
**Data sheet**

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WAS4 PRO DC/DC**

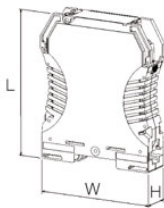
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**Drawings**

**Electric symbol**



Screenshot example, Wave tool software



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