

WAVESERIES WAS4 PRO DC/DC

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 16

D-32758 Detmold

Germany

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www.weidmueller.com



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 (± 20 mV... ± 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 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

Order No.	8560740000
Type	WAS4 PRO DC/DC
Version	WAVESERIES, Signal converter/disconnector
GTIN (EAN)	4032248207350
Qty.	1 pc(s).

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Technical data
Dimensions

Length	92.4 mm	Width	12.5 mm
Height	112.4 mm	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

MTTF	76 Years
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Input

Input current	$\pm 0.1\text{mA} \dots \pm 100\text{mA}$	Number of inputs	1
Input resistance, voltage	Approx. 1 M Ω	Input resistance, current	< 5 mA: approx. 100 Ω ; >5 mA: approx. 5 Ω
Input voltage	$\pm 20\text{mV} \dots \pm 200\text{V}$		

Output

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	$\geq 1\text{k}\Omega$
Number of outputs	1	load impedance current	$\leq 600\text{mA}$
Offset voltage	10 mV	Offset current	20 μA
Status indicator	Green LED	Displacement	-100%, -50%, 0%, 50%, 100% of measuring span
Output voltage, note	0... $\pm 10\text{V}$	Output current	0... $\pm 20\text{mA}$

General data

Accuracy	< 0.2 %	Galvanic isolation	3-way isolator
Input/Output	Configurable	Mounting rail	TS 35
Power consumption	ca. 1 W	Step response time	120 ms (10...90 %)
Supply voltage	22...230 V AC/DC +10 %	Temperature coefficient	$\leq 60\text{ppm/K}$ of final value

Insulation coordination

EMC standards	DIN EN 61326, EN 61000-6 /-2	Impulse withstand voltage	5 kV, 1.2/50 μs (IEC 255-4)
Insulation voltage	4 kV _{eff}	Insulation voltage input or output/rail	4 kV _{eff}
Insulation voltage input or output/supply	4 kV _{eff}	Pollution severity	2
Rated voltage	600 V	Standards	DIN EN 50178, DIN EN 61000-4-2
Surge voltage category	III		

Classifications

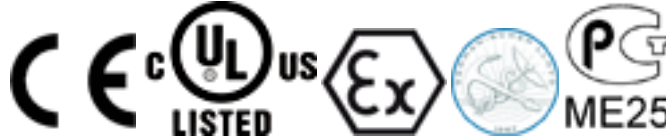
ETIM 3.0	EC001774	eClass 6.0	27-21-01-20
eClass 7.0	27-21-01-20		

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Technical data**Approvals**

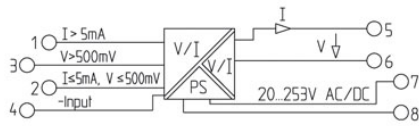
Approvals

**Downloads**

Declaration of Conformity	K202_07_11.pdf
EPLAN	8560740000.ema
3-D model	

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Drawings**Electric symbol**

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Accessories

ZQV 2.5N blue



Weidmüller offers users of modular terminals of the Z-Series a comprehensive range of accessories that render possible appropriate solutions for all - even non-standard - tasks.

The accessories must comply with the same quality standards as the modular terminals themselves.

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.
1717990000	ZQV 2.5N/2 BL	General accessories, Cross-connector, For the terminals, No. of poles: 2	4008190349295	60 pc(s).

Blank



WS markers are the perfect match for the connectors of the W series. But thanks to their system compatibility the WS tags can also be used with the I series and the Z series. The large areas for printing permit not only long character strings but also multiple lines.

WS markers are ideal for labels with long, bespoke character strings. The tried-and-tested MultiCard format means that printing can be carried out with **laser** printers, **PrintJet, plotters** or the **MC-Mobilo**.

- Can be fitted in strips or singly
- Markers in proven multicard format

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.
1635000000	WS 10/5 MC NEUTRAL	Terminal markers, MultiCard, 10 x 5 mm, Polyamide, Colour: White	4008190261948	720 pc(s).

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Accessories
ZQV 2.5N red


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General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.
1717900000	ZQV 2.5N/2 RT	General accessories, Cross-connector, For the terminals, No. of poles: 2	4008190349288	60 pc(s).

ZQV 2.5N


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General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.
1693800000	ZQV 2.5N/2 GE	General accessories, Cross-connector, For the terminals, No. of poles: 2	4008190883621	60 pc(s).

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Accessories

ZQV 2.5N black



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General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.
1718080000	ZQV 2.5N/2 SW	General accessories, Cross-connector, For the terminals, No. of poles: 2	4008190349301	60 pc(s).