

## WAVESERIES

### WAS1 CMA 1/5/10A ac

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 16  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
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When used for industrial monitoring applications, sensors can record ambience conditions. Sensor signals are used within the process to continually track changes to the area being monitored. Both digital and analogue signals can occur.

Normally an electrical voltage or current value is produced which corresponds proportionally to the physical variables that are being monitored. Analogue signal processing is required when automation processes have to constantly maintain or reach defined conditions. This is particularly significant for process automation applications. Standardised electrical signals are typically used for process engineering. Analogue standardised currents / voltage 0(4)...20 mA/ 0...10 V have established themselves as physical measurement and control variables.

Weidmüller meets the ever increasing challenges of automation and offers a product portfolio tailored to the requirements of handling sensor signals in analogue signal processing.

The analogue signal processing products can be used universally in combination with other Weidmüller products and in combination among each other. Their electrical and mechanical design is such that they require only minimal wiring efforts.

Housing types and wire-connection methods matched to the respective application facilitate the universal use in process and industrial automation applications.

The product line includes the following functions:

- Isolating transformers, supply isolators and signal converters for DC standard signals
- Temperature measuring transducers for resistance thermometers and thermocouples,
- frequency converters,
- potentiometer-measuring-transducers,
- bridge measuring transducers (strain gauges)
- trip amplifiers and modules for monitoring electrical and non-electrical process variables
- AD/DA converters
- displays
- calibration devices

#### General ordering data

The products mentioned are available as pure signal converters / isolation transducers, 2-way/3-way isolators, supply isolators, passive isolators or as trip amplifiers.

Delivery status	This article will no longer be available in the future.
Available until	2017-09-15
Type	WAS1 CMA 1/5/10A ac
Order No.	<a href="#">8523400000</a>
Version	WAVESERIES, Current monitoring, 0...1 A AC/ 0...5 A AC/ 0...10 A AC, 1, 1, Screw connection
GTIN (EAN)	4032248151691
Qty.	1 pc(s).
Alternative product	<a href="#">2044850000</a>

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

Length	72 mm	Length (inches)	2.835 inch
Width	22.5 mm	Width (inches)	0.886 inch
Depth	92.4 mm	Depth (inches)	3.638 inch
Weight	150 g	Net weight	76.9 g

**Temperatures**

Operating temperature	0 °C...50 °C	Storage temperature	-20 °C...70 °C
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**Probability of failure**

MTTF	533 Jahre
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**Input**

Number of inputs	1	Input current	0...1 A AC/ 0...5 A AC/ 0...10 A AC
Input frequency	50...60 Hz		

**Output**

Number of outputs	1	Output signal limit	Approx. 13 V or 24 mA
Output voltage, note	0...10 V	Output current	0(4)...20 mA
load impedance voltage	≥ 1 kΩ	load impedance current	≤ 600 Ω
Offset voltage	max. 0.05 V	Offset current	max. 100 µA
Status indicator	LED ON: OK; FLASHING: signal out of range; LED OFF: Error		

**General data**

Accuracy	0.5 % FSR	Configuration	DIP switch
Current consumption	40 mA @ I <sub>OUT</sub> = 20 mA	Current-carrying capacity of cross-connect.	≤ 2 A
Galvanic isolation	2-way isolator	Input/Output	1/ 5/ 10 A AC / 0(4)...20 mA; 0...10 V
Mounting rail	TS 35	Step response time	typ. 700 ms
Supply voltage	24 V DC ± 10 %	Temperature coefficient	≤ 200 ppm/K

**Insulation coordination**

Clearance & creepage distances	≥ 5.5 mm	EMC standards	EN 55011, EN 61000-6
Galvanic isolation	2-way isolator	Impulse withstand voltage	6 kV
Insulation voltage	4 kV <sub>eff</sub> / 5 s	Pollution severity	2
Rated voltage	300 V	Standards	DIN EN 50178 (secure separation)
Surge voltage category	III		

**Connection data**

Wire connection method	Screw connection	Type of connection	Screw connection
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>		

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**Technical data****Classifications**

ETIM 3.0	EC001440	ETIM 4.0	EC002048
ETIM 5.0	EC002048	ETIM 6.0	EC002653
UNSPSC	30-21-18-01	eClass 5.1	27-21-09-02
eClass 6.2	27-21-09-02	eClass 7.1	27-37-18-02
eClass 8.1	27-37-18-02	eClass 9.0	27-37-18-02
eClass 9.1	27-21-01-20		

**Product information**

Product information	This product will soon be replaced by a new product. Please do not use with new systems. Please contact our technical support.
Descriptive text accessories	Cross-connectors for power supplies and markers – refer to Accessories

**Approvals**

Approvals



ROHS Conform

**Downloads**

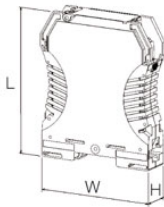
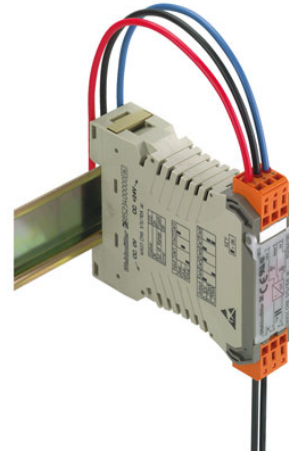
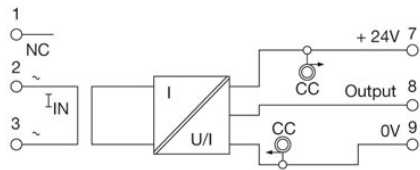
Approval/Certificate/Document of Conformity	<a href="#">Declaration of Conformity</a>
Brochure/Catalogue	<a href="#">CAT 4.1 ELECTR 16/17 EN</a>
User Documentation	<a href="#">Instruction sheet</a>

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**Drawings**

**Electric symbol**



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**Accessories**

**ZQV 2.5N**



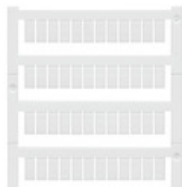
**Spring connection with tension clamp Technology**

Tension clamp technology is a universal contact system for all common conductor connection types. Its fantastic level of flexibility makes the tension clamp a profitable alternative connection.

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.
ZQV 2.5N/2 SW	<a href="#">1718080000</a>	Accessories, Cross-connector, 24 A	4008190349301	60 pc(s).
ZQV 2.5N/2 GE	<a href="#">1693800000</a>	Z-series, Cross-connector, 24 A	4008190883621	60 pc(s).
ZQV 2.5N/2 RT	<a href="#">1717900000</a>	Accessories, Z-series, Cross-connector, 24 A	4008190349288	60 pc(s).
ZQV 2.5N/2 BL	<a href="#">1717990000</a>	Accessories, Cross-connector, 24 A	4008190349295	60 pc(s).

**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 laser printer, PrintJet ADVANCED, plotter or MC-Mobilo is possible.

- Can be fitted in strips or individually
- Markers in proven MultiCard format

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.
WS 10/5 MC NE WS	<a href="#">1635000000</a>	WS, Terminal marker, 10 x 5 mm, Pitch in mm (P): 5.00 Weidmueller, Allen-Bradley, White	4008190261948	720 pc(s).