

**WAZ1 CMA LP 1/5/10A AC****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)

Output current loop fed AC current monitoring components WAS/WAZ1 CMA LP.

They can measure single-phase 50/60 Hz AC currents of up to 10 A using the Root Mean Square (RMS) method on the input side. They can also be switched between three ranges. No external power supply is used; the supply is only via the 4...20 mA current loop on the output side.

The input and output circuits are securely isolated with 4 kV.

The monitoring components come in a 17.5-mm-wide WAVEBOX housing. These devices can be used in many process automation applications because they are not dependent on an external power supply.

International approvals (such as ATEX Zone 2 and UL C1D2) also permit usage in explosion-risk zones.

**General ordering data**

Version	Current monitoring, Input current: 0...1 A AC/ 0...5 A AC/ 0...10 A AC, Output : 4-20 mA, (loop powered)
Order No.	<a href="#">8528660000</a>
Type	WAZ1 CMA LP 1/5/10A AC
GTIN (EAN)	4032248160433
Qty.	1 pc(s).
Delivery status	<b>This article will no longer be available in the future.</b>
Available until	2023-12-30
Alternative product	<a href="#">2489910000</a>

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## Technical data

## Dimensions and weights

Depth	112.4 mm	Depth (inches)	4.425 inch
Width	22.5 mm	Width (inches)	0.886 inch
Length	72 mm	Length (inches)	2.835 inch
Net weight	72.9 g		

## Temperatures

Storage temperature	-20 °C...70 °C	Operating temperature	0 °C...70 °C
Humidity at operating temperature	0...95 % (no condensation)		

## Probability of failure

SIL in compliance with IEC 61508	None	MTTF	564 a
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## Input

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

## Output

Load impedance current	≤ 600 Ω	Number of outputs	1
Offset current	max. 100 µA	Output current	4...20 mA (current loop)
Output signal limit	Approx. 24 mA		

## Output (digital)

Max. switching voltage, AC	0 V	Rated switching current	0.1 A
Status indicator	LED ON: OK; LED flashing: signal out of range; LED OFF: Error		

## General data

Accuracy	0.5 % FSR	Configuration	DIP switch
Galvanic isolation	2-way isolator	Protection degree	IP20
Rail	TS 35	Step response time	typ. 700 ms
Temperature coefficient	≤ 200 ppm/K	Voltage supply	13...30 V DC, via output current loop

## Insulation coordination

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
Surge voltage category	III		

## Connection data

Type of connection	Tension-clamp connection	Clamping range, rated connection	1.5 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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ETIM 6.0	EC002653	ETIM 7.0	EC002653
ETIM 8.0	EC002653	ETIM 9.0	EC002653
ECLASS 9.0	27-21-01-20	ECLASS 9.1	27-21-01-20
ECLASS 10.0	27-21-01-20	ECLASS 11.0	27-21-01-20
ECLASS 12.0	27-21-01-20	ECLASS 13.0	27-21-01-20

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Technical data

Tender specification sheets

Long specification

Monitoring component for AC currents up to 10A with 4...20 mA loop feed and electrical isolation  
Current monitoring component in 22.5 mm width for recording 50/ 60 Hz AC currents  
0...1 A / 0...5 A / 0...10 A. Input range can be selected using DIP switches.  
Power is fed to the component via the 4...20 mA current loop on the output side.  
The input and output circuits have 6 kV of electrical isolation.

Add-on housing for TS35 rail mounting  
Dimensions: L/W/H 72/ 22.5/ 92.4 mm  
Tension-clamp connection / Nominal cross-section 1.5 mm<sup>2</sup>  
Protection degree: IP 20  
Input 0...1 A / 0...5 A / 0...10 A AC switchable 50 / 60 Hz  
Voltage of measuring circuit 250 V AC  
Output 4...20 mA current loop  
Load resistance < 600 Ohm Strom >1 kOhm / voltage  
Transmission error < 0,5% v. E.  
Temperature coefficient 200 ppm / K  
Step response time typ. 700 ms  
Auxiliary power via output-side current loop  
Ambient temperature range 0 °C...+50 °C

Secure isolation EN 50178, 2-way isolation up to 6 kV  
Test voltage 4 kV  
input against output Rated voltage 300 V AC/DC at overvoltage category III and pollution degree 2  
Approvals cULus

Short specification

Monitoring component for AC currents up to 10A with 4...20 mA loop feed and electrical isolation  
Current monitoring component in 22.5 mm width for recording 50/ 60 Hz AC currents  
0...1 A / 0...5 A / 0...10 A. Input range can be selected using DIP switches.  
Power is fed to the component via the 4...20 mA current loop on the

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**Technical data****Environmental Product Compliance**

REACH SVHC	Lead 7439-92-1 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol 119-47-1
SCIP	f8333314-0c66-4444-aa47-78252861a7fb

**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.
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**Approvals**

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate no. (cULus)	E141197

**Downloads**

Approval/Certificate/Document of Conformity	<a href="#">Application notes – Declaration of Conformity</a>
Engineering Data	<a href="#">CAD data – STEP</a>
Product Change Notification	<a href="#">20220218 Technical change - WAVE series' signal conditioners WS WZ</a>
User Documentation	<a href="#">Device description – Instruction sheet</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>
Brochures	

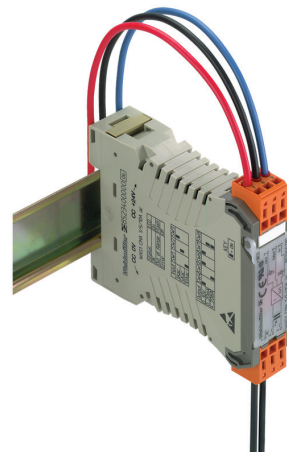
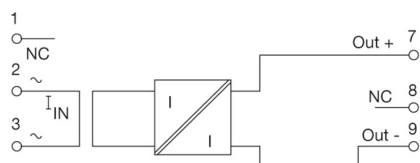
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## Drawings

### Electric symbol



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## Accessories

## Blank



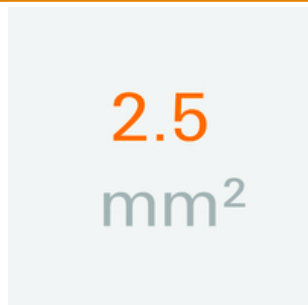
WS markers are the perfect match for the W-series connectors. Thanks to their system compatibility, the WS tags can also be used with the I-series and the Z-series. The large marking surfaces do not only permit long character strings but also multi-line text. WS markers are ideal for labels with long, customised character strings. Thanks to the proven MultiCard format, printing with PrintJet CONNECT oder/or Plotter is possible.

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

**For custom printing:** Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

## General ordering data

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

2.5 mm<sup>2</sup>

The plug-in cross-connections feature easy handling and quick installation. This saves a great deal of time during installation in comparison with screwed solutions.

## General ordering data

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

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Type	ZQV 2.5N/2 RT	Version
Order No.	<a href="#">1717900000</a>	W-Series, Cross-connector, 24 A
GTIN (EAN)	4008190349288	
Qty.	60 pc(s).	