

## WAS1 CMA 1/5/10A AC

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

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

Do not use product for  
 new developments, Only  
 remaining stock available



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 : 0-20 mA, 0-10 V |
| Order No.           | <a href="#">8523400000</a>   |
| Type                | WAS1 CMA 1/5/10A AC  |
| GTIN (EAN)          | 4032248151691  |
| Qty.                | 1 items  |
| Delivery status     | This article will no longer be available in the future.  |
| Available until     | 2022-12-31T00:00:00+01:00  |
| Alternative product | <a href="#">ACT20P-CML-10-AO-RC-S</a>  |

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## Technical data

## Approvals

Approvals



ROHS Conform

UL File Number Search [UL Website](#)

Certificate no. (cULus) E141197

## Dimensions and weights

|            |         |                 |             |
|------------|---------|-----------------|-------------|
| Depth      | 92.4 mm | Depth (inches)  | 3.6378 inch |
| Width      | 22.5 mm | Width (inches)  | 0.8858 inch |
| Length     | 72 mm   | Length (inches) | 2.8346 inch |
| Net weight | 76.9 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 | 533 a |
|----------------------------------|------|------|-------|

## Environmental Product Compliance

|                                      |                                      |
|--------------------------------------|--------------------------------------|
| RoHS Compliance Status               | Compliant with exemption             |
| RoHS Exemption (if applicable/known) | 7a, 7cl                              |
| REACH SVHC                           | Lead 7439-92-1                       |
| SCIP                                 | b25f3b7c-b874-4a4e-a8b2-4f423a7e2a65 |

## Input

|               |  |                 |           |
|---------------|--|-----------------|-----------|
| Number inputs | 1                                      | Input frequency | 50...60Hz |
| Input current | 0...1 A AC/ 0...5 A AC/<br>0...10 A AC |                 |           |

## Output

|                        |              |                        |                       |
|------------------------|--------------|------------------------|-----------------------|
| Number of outputs      | 1            | load impedance voltage | ≥ 1 kΩ                |
| Load impedance current | ≤ 600 Ω      | Offset voltage         | max. 0.05 V           |
| Offset current         | max. 100 μA  | Output voltage, note   | 0...10 V              |
| Output current         | 0(4)...20 mA | Output signal limit    | Approx. 13 V or 24 mA |

## Output (digital)

|                         |       |                            |     |
|-------------------------|-------|----------------------------|-----|
| Rated switching current | 0.1 A | Max. switching voltage, AC | 0 V |
|-------------------------|-------|----------------------------|-----|

## General data

|                  |   |                   |                |
|------------------|---|-------------------|----------------|
| Accuracy         | 0.5 % FSR   | Protection degree | IP20           |
| Status indicator | LED ON: OK; LED flashing:<br>signal out of range;<br>LED OFF: Error | Supply voltage    | 24 V DC ± 10 % |

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|                           |             |                         |                                  |
|---------------------------|-------------|-------------------------|----------------------------------|
| Step response time        | typ. 700 ms | Current consumption     | 40 mA @ IOU <sub>T</sub> = 20 mA |
| Mounting rail             | TS 35       | Temperature coefficient | ≤ 200 ppm/K                      |
| Nominal power consumption | 1.5 VA      | Configuration           | DIP switch                       |

### Insulation coordination

|                           |                |                    |                           |
|---------------------------|----------------|--------------------|---------------------------|
| Impulse withstand voltage | 6 kV           | EMC standards      | EN 55011, EN 61000-6      |
| Surge voltage category    | III            | Pollution severity | 2                         |
| Galvanic isolation        | 2-way isolator | Insulation voltage | 4 kV <sub>eff</sub> / 5 s |
| Rated voltage             | 300 V          |                    |                           |

### 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> |                      |                     |

### 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 8.0    | EC002653    | ETIM 9.0    | EC002653    |
| ETIM 10.0   | EC002653    | ECLASS 14.0 | 27-21-01-20 |
| ECLASS 15.0 | 27-21-01-20 |             |             |

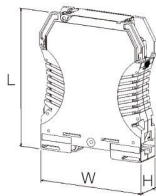
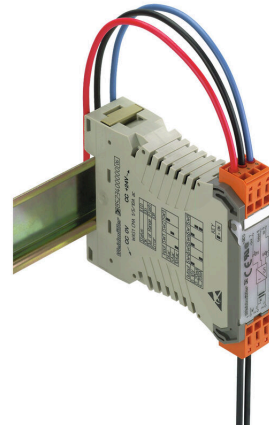
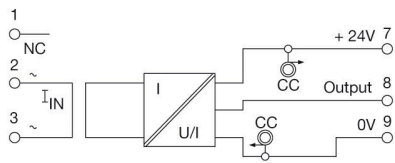
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**Drawings**

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**Electric symbol**



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## Accessories

### Cross-connections



The distribution or multiplication of a potential to adjoining terminal blocks is realized via a cross-connection. Additional wiring effort can be easily avoided. Even if the poles are broken out, contact reliability in the terminal blocks is still ensured. Our portfolio offers pluggable and screwable cross-connection systems for modular terminal blocks.

### General ordering data

|            |                            |                                 |
|------------|----------------------------|---------------------------------|
| Type       | ZQV 2.5N/2 GE              | Version                         |
| Order No.  | <a href="#">1693800000</a> | W-Series, Cross-connector, 24 A |
| GTIN (EAN) | 40081908883621             |                                 |
| Qty.       | 60 ST                      |                                 |
| Type       | ZQV 2.5N/2 RT              | Version                         |
| Order No.  | <a href="#">1717900000</a> | W-Series, Cross-connector, 24 A |
| GTIN (EAN) | 4008190349288              |                                 |
| Qty.       | 60 ST                      |                                 |
| Type       | ZQV 2.5N/2 BL              | Version                         |
| Order No.  | <a href="#">1717990000</a> | W-Series, Cross-connector, 24 A |
| GTIN (EAN) | 4008190349295              |                                 |
| Qty.       | 60 ST                      |                                 |
| Type       | ZQV 2.5N/2 SW              | Version                         |
| Order No.  | <a href="#">1718080000</a> | W-Series, Cross-connector, 24 A |
| GTIN (EAN) | 4008190349301              |                                 |
| Qty.       | 60 ST                      |                                 |

### 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 ST                     |  |