

## WAVESERIES WAZ1 CMA LP 1/5/10A ac

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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

|            |                                                                                                     |
|------------|-----------------------------------------------------------------------------------------------------|
| Type       | WAZ1 CMA LP 1/5/10A ac                                                                              |
| Order No.  | <a href="#">8528660000</a>                                                                          |
| Version    | WAVESERIES, Current monitoring, 0...1 A AC/ 0...5 A AC/ 0...10 A AC, 1, 1, Tension-clamp connection |
| GTIN (EAN) | 4032248160433                                                                                       |
| Qty.       | 1 pc(s).                                                                                            |

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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  | 112.4 mm | Depth (inches)  | 4.425 inch |
| Weight | 150 g    | Net weight      | 72.9 g     |

**Temperatures**

|                             |              |                             |                |
|-----------------------------|--------------|-----------------------------|----------------|
| Operating temperature, max. | 50 °C        | Operating temperature, min. | 0 °C           |
| Storage temperature, max.   | 70 °C        | Storage temperature, min.   | -20 °C         |
| Operating temperature       | 0 °C...50 °C | Storage temperature         | -20 °C...70 °C |

**Probability of failure**

|      |           |
|------|-----------|
| MTTF | 564 Jahre |
|------|-----------|

**Environmental Product Compliance**

|            |                |
|------------|----------------|
| REACH SVHC | Lead 7439-92-1 |
|------------|----------------|

**Input**

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

**Output**

|                   |                          |                        |                                                               |
|-------------------|--------------------------|------------------------|---------------------------------------------------------------|
| Number of outputs | 1                        | Output signal limit    | Approx. 24 mA                                                 |
| Output current    | 4...20 mA (current loop) | load impedance current | ≤ 600 Ω                                                       |
| Offset current    | max. 100 µA              | 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 | Input/Output       | 1 / 5 / 10 A AC / 4...20 mA (current loop) |
| 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**

|                                |                           |                           |                      |
|--------------------------------|---------------------------|---------------------------|----------------------|
| 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                     | 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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**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 | 27-21-01-20 |
| 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.

**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>         |

**Data sheet****WAVESERIES  
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**Drawings****Electric symbol**