

WAS1 CMA LP 1/5/10A EX**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

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.	8975590000
Type	WAS1 CMA LP 1/5/10A EX
GTIN (EAN)	4050118023640
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Depth	112.4 mm	Depth (inches)	4.425 inch
Length	72 mm	Length (inches)	2.835 inch
Net weight	101 g	Weight	150 g
Width	22.5 mm	Width (inches)	0.886 inch

Temperatures

Storage temperature	-20 °C...70 °C	Operating temperature	0 °C...50 °C
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Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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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		Status indicator	LED ON: OK; LED flashing: signal out of range; LED OFF: Error
	Approx. 24 mA		

General data

Accuracy	0.5 % FSR	Configuration	DIP switch
Galvanic isolation		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	Type of connection	Screw connection
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 _{eff} / 5 s	Pollution severity	2
Rated voltage	300 V	Surge voltage category	III

Connection data

Type of connection	Screw connection	Clamping range, rated connection	2.5 mm ²
Clamping range, min.	0.5 mm ²	Clamping range, max.	2.5 mm ²

Classifications

ETIM 6.0	EC002653	ETIM 7.0	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

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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. Approved for ATEX Zone2 and UL C1 D2 applications.

Add-on housing for TS35 rail mounting
Dimensions: L/W/H 72/ 22.5/ 92.4 mm
Screw connection / Nominal cross-section 2.5 mm²
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
Rated voltage 300 V AC/DC
overvoltage category III and pollution degree 2

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

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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.

Approvals

Approvals



ROHS

Conform

Downloads

Approval/Certificate/Document of
Conformity

[Declaration of Conformity](#)

User Documentation

[Instruction sheet](#)

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Drawings

Electric symbol

