

WAS1 CMA LP 1/5/10A EX

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

www.weidmueller.com

Do not use product for
new developments



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 items
Delivery status	This article will no longer be available in the future.
Available until	2023-12-30T00:00:00+01:00
Alternative product	ACT20P-CML-10-AO-RC-S

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Technical data

Approvals

Approvals



ROHS Conform

UL File Number Search [UL Website](#)

Certificate no. (cULusEX) E223527

Dimensions and weights

Depth	112.4 mm	Depth (inches)	4.4252 inch
Width	22.5 mm	Width (inches)	0.8858 inch
Length	72 mm	Length (inches)	2.8346 inch
Net weight	101 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

Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	7a, 7cl
REACH SVHC	Lead 7439-92-1, 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol 119-47-1
SCIP	c2a21576-d875-4548-ae68-5e7f85ddf0c7

Input

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

Output

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

Output (digital)

Rated switching current	0.1 A	Max. switching voltage, AC	0 V
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General data

Accuracy	0.5 % FSR	Protection degree	IP20
Status indicator	LED ON: OK; LED flashing: signal out of range; LED OFF: Error	Supply voltage	13...30 V DC, via output current loop
Step response time	typ. 700 ms	Mounting rail	TS 35
Temperature coefficient	≤ 200 ppm/K	Nominal power consumption	1.5 VA

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Configuration	DIP switch
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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 kVeff / 5 s
Rated voltage	300 V		

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

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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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		

Tender specification sheets

Long specification	<p>Monitoring component for AC currents up to 10A with 4...20 mA loop feed and electrical isolation</p> <p>Current monitoring component in 22.5 mm width for recording 50/ 60 Hz</p> <p>AC currents 0...1 A / 0...5 A / 0...10 A. Input range can be selected using DIP switches.</p> <p>Power is fed to the component via the 4...20 mA current loop on the output side.</p> <p>The input and output circuits have 6 kV of electrical isolation.</p> <p>Approved for ATEX Zone2 and UL C1 D2 applications.</p> <p>Add-on housing for TS35 rail mounting</p> <p>Dimensions: L/W/H 72/ 22.5/ 92.4 mm</p> <p>Screw connection / Nominal cross-section 2.5 mm²</p> <p>Protection degree: IP 20</p> <p>Input 0...1 A / 0...5 A / 0...10 A AC switchable</p> <p>50 / 60 Hz</p>	Short specification	<p>Monitoring component for AC currents up to 10A with 4...20 mA loop feed and electrical isolation</p> <p>Current monitoring component in 22.5 mm width for recording 50/ 60 Hz</p> <p>AC currents 0...1 A / 0...5 A / 0...10 A. Input range can be selected using DIP switches.</p> <p>Power is fed to the component via the 4...20 mA current loop on the output side.</p> <p>The input and output circuits have 6 kV of electrical isolation.</p> <p>Approved for ATEX Zone2 and UL C1 D2 applications.</p>
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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, cULusEX
C1D2, ATEX Zone 2
Type
WAS1 CMA LP 1/5/10A
EX

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Drawings

Electric symbol

