

**WAS1 CMA LP 1/5/10A EX****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="#">8975590000</a>
Type	WAS1 CMA LP 1/5/10A EX
GTIN (EAN)	4050118023640
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="#">2044850000</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	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
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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	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	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>

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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 monitor-  
ing 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 com-  
ponent 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 ap-  
plications.

Add-on housing for  
TS35 rail mounting  
Dimensions: L/W/H 72/  
22.5/ 92.4 mm  
Screw connection /  
Nominal cross-section  
2.5 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  
Out-  
put  
4...20 mA current loop  
Load resistance <  
600 Ohm Strom  
>1 kOhm / voltage  
Transmission er-  
ror < 0,5% v. E.  
Temperature coeffi-  
cient 200 ppm / K  
Step response time typ.  
700 ms  
Auxiliary pow-  
er  
via output-side current  
loop  
Ambient  
temperature range 0  
°C...+50 °C

Secure isola-  
tion EN 50178,  
2-way isolation up to 6  
kV  
Test volt-

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 com-  
ponent via the 4...20

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REACH SVHC	Lead 7439-92-1
SCIP	c2a21576-d875-4548-ae68-5e7f85ddf0c7

**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. (cULusEX)	E223527

**Downloads**

Approval/Certificate/Document of Conformity	<a href="#">Application notes – Declaration of Conformity</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

