

WAVESERIES

WAS1 CMA LP 1/5/10A ac

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When used for industrial monitoring applications, sensors can record ambience conditions. Sensor signals are used within the process to continually track changes to the area being monitored. Both digital and analogue signals can occur.

Normally an electrical voltage or current value is produced which corresponds proportionally to the physical variables that are being monitored. Analogue signal processing is required when automation processes have to constantly maintain or reach defined conditions. This is particularly significant for process automation applications. Standardised electrical signals are typically used for process engineering. Analogue standardised currents / voltage 0(4)...20 mA/ 0...10 V have established themselves as physical measurement and control variables.

Weidmüller meets the ever increasing challenges of automation and offers a product portfolio tailored to the requirements of handling sensor signals in analogue signal processing.

The analogue signal processing products can be used universally in combination with other Weidmüller products and in combination among each other. Their electrical and mechanical design is such that they require only minimal wiring efforts.

Housing types and wire-connection methods matched to the respective application facilitate the universal use in process and industrial automation applications.

The product line includes the following functions:

- Isolating transformers, supply isolators and signal converters for DC standard signals
- Temperature measuring transducers for resistance thermometers and thermocouples,
- frequency converters,
- potentiometer-measuring-transducers,
- bridge measuring transducers (strain gauges)
- trip amplifiers and modules for monitoring electrical and non-electrical process variables
- AD/DA converters
- displays
- calibration devices

General ordering data

The products mentioned are available as pure signal converters / isolation transducers, 2-way/3-way isolators, supply isolators, passive isolators or as trip amplifiers.

Order No.	8528650000
Version	WAVESERIES, Current monitoring, 0...1 A AC/ 0...5 A AC/ 0...10 A AC, 1, 1, Screw connection
GTIN (EAN)	4032248160426
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	100.7 g

Temperatures

Operating temperature	0 °C...50 °C	Storage temperature	-20 °C...70 °C
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Probability of failure

MTTF	564 Jahre
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Input

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

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; 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)
Mounting rail	TS 35	Step response time	typ. 700 ms
Supply voltage	13...30 V DC, via output current loop	Temperature coefficient	≤ 200 ppm/K

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	Standards	DIN EN 50178 (secure separation)
Surge voltage category	III		

Connection data

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

Data sheet

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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	27-37-18-02
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.
Descriptive text accessories	Cross-connectors for power supplies and markers – refer to Accessories

Approvals

Approvals



ROHS	Conform
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Downloads

Approval/Certificate/Document of Conformity	Declaration of Conformity
Brochure/Catalogue	CAT 4.1 ELECTR 16/17 EN
User Documentation	Instruction sheet

Data sheet

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Drawings

Electric symbol

