

**MICROSERIES
MAS RPS**

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Do not use product for new developments



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,

General ordering data

Type	MAS RPS
Order no.	4032248394418
Version	MicroSeries Variable Isolator
GTIN (EAN)	4032248394418
Qty.	1 pc(s).

- displays
- calibration devices

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

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Technical data**Dimensions and weights**

Length	88 mm	Length (inches)	3.465 inch
Width	6.1 mm	Width (inches)	0.24 inch
Height	97.8 mm	Height (inches)	3.85 inch
Net weight	48 g		

Temperatures

Operating temperature, max.	55 °C	Operating temperature, min.	0 °C
Storage temperature, max.	85 °C	Storage temperature, min.	-25 °C
Operating temperature	0 °C...55 °C	Storage temperature	-25 °C...85 °C

Probability of failure

MTTF	450 Years
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Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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Rated data UL

Certificate No. (cURus)	E175400
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Input

Number of inputs	1	Sensor	2-wire
Sensor supply	16.5 V / constant for 3 – 22 mA	Input current	4...20 mA

Output

Number of outputs	1	Output signal limit	22...25 mA
Output current	4...20 mA	load impedance current	≤ 500 Ω
Offset current	< 30 µA		

General data

Accuracy	< 0,1 %	Configuration	none
Current-carrying capacity of cross-connect.	≤ 20 A	Galvanic isolation	3-way isolator
Input/Output	4...20 mA/ 4...20 mA	Power consumption	ca. 1 W
Rail	TS 35	Step response time	≤ 2 ms
Temperature coefficient	≤ 50 ppm/K	Voltage supply	24 V DC ± 15 %

Insulation coordination

EMC standards	DIN EN 61326 Class B	Galvanic isolation	3-way isolator
Insulation voltage	1.5 kV _{eff}	Pollution severity	2
Rated voltage	300 V	Surge voltage category	II

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

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Classifications

ETIM 4.0	EC002653	ETIM 5.0	EC002653
ETIM 6.0	EC002653	UNSPSC	31-12-10-07
eClass 5.1	27-21-01-20	eClass 6.2	27-21-01-20
eClass 7.1	27-21-01-20	eClass 8.1	27-21-01-20
eClass 9.0	27-21-01-20	eClass 9.1	27-21-01-90

Approvals

Approvals



ROHS Conform

Downloads

Approval/Certificate/Document of Conformity	Declaration of Conformity
Engineering Data	EPLAN, WSCAD
User Documentation	Instruction sheet

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Drawings

Electric symbol

