

WAVESERIES

WAZ5 VCC 0-10V/4-20mA

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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,

frequency converters,

- potentiometer-measuring transducers,
- bridge measuring transducers (strain gauges)

trip amplifiers and modules for monitoring electrical

and non-electrical process variables, Tension clamp connection

- AD/DA converters

GTIN (EAN) 4032248180684

displays 1 pc(s).

- 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	92.4 mm	Length (inches)	3.638 inch
Width	17.5 mm	Width (inches)	0.689 inch
Depth	112.4 mm	Depth (inches)	4.425 inch
Net weight	101.1 g		

Temperatures

Operating temperature, max.	55 °C	Operating temperature, min.	0 °C
Storage temperature, max.	85 °C	Storage temperature, min.	-20 °C
Operating temperature	0 °C...55 °C	Storage temperature	-20 °C...85 °C

Input

Number of inputs	1	Input voltage	0...10 V
Input resistance, voltage	typ. 100 kΩ		

Output

Number of outputs	1	Output current	4...20 mA
Cut-off frequency (-3 dB)	10 Hz	load impedance current	≤ 600 Ω

General data

Accuracy	0.2 %	Configuration	none
Current-carrying capacity of cross-connect.	≤ 2 A	Galvanic isolation	3-way isolator
Input/Output	0...10 V/ 4...20 mA	Mounting rail	TS 35
Power consumption	< 1.5 W @ I _{OUT} = 20 mA	Step response time	≤ 45 ms
Supply voltage	24 V DC ± 25 %	Temperature coefficient	± 250 ppm/K

Insulation coordination

Clearance & creepage distances	≥ 3 mm	EMC standards	EN 55011, EN 61000-6
Galvanic isolation	3-way isolator	Impulse withstand voltage	4 kV
Insulation voltage	2 kV _{eff} / 5 s	Insulation voltage input or output/rail	4 kV _{eff} / 1 min.
Insulation voltage input or output/supply	2 kV _{eff} / 5 s	Pollution severity	2
Rated voltage	300 V	Surge voltage category	III

Connection data

Type of connection	Tension clamp connection	Stripping length, rated connection	7 mm
Clamping range, rated connection	1.5 mm ²	Clamping range, min.	0.5 mm ²
Clamping range, max.	2.5 mm ²		

Classifications

ETIM 3.0	EC001774	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	27-21-01-20		

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Technical data**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.
Instructions for 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
Engineering Data	EPLAN, WSCAD
User Documentation	Instruction sheet

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Drawings

Electric symbol

