

Voltage monitoring with analog output

WAS2 VMA Vac
WAZ2 VMA Vac

NEW



CU[®]
US

- 3-way-isolation
- max. input voltage 450 Vac_{eff}
- no adjustment required
- Input and output range configuration by DIP-Switches
- Output signal:
0...10 V, 0...20 mA or 4...20 V

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Voltage monitoring with analogue output

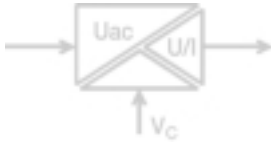
WAVECONTROL

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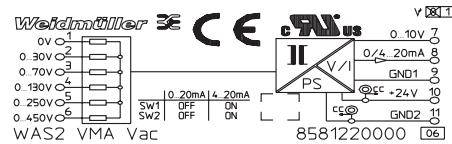
Approvals:



Schematic circuit diagram



VMA Vac



Ordering data

Screw connection	WAS2 VMA Vac	8581220000	1
Tension clamp connection	WAZ2 VMA Vac	8581230000	1

Type	Cat. No.	Qty.
WAS2 VMA Vac	8581220000	1
WAZ2 VMA Vac	8581230000	1

Technical data*

Input

Input voltage / input impedance

Connection 1: 0 V GND
 Connection 2: 0...30 Vac / 30 kΩ
 Connection 3: 0...70 Vac / 70 kΩ
 Connection 4: 0...130 Vac / 130 kΩ
 Connection 5: 0...250 Vac / 250 kΩ
 Connection 6: 0...450 Vac / 450 kΩ

Input frequency

40 Hz...400 Hz sine

Accuracy

1.3 % (40 Hz...60 Hz) typ. 1 %
 2.0 % (70 Hz...400 Hz) typ. 1.5 %

max. input voltage

450 Vac_{eff}

Output

Current-/voltage output (by DIP-Switches)

0...10 V
 0...20 mA
 4...20 mA

Output voltage

0...10 V

Output offset voltage

max. 0.02 V

Load resistance

≥ 1 kΩ

Output current

0/4...20 mA

Output offset current

max. 40 μA

Load resistance

≤ 600 Ω

Status indication

LED green

Temperature coefficient

≤ 250 ppm/K

Response time (10...90%)

700 ms

Coordination of insulation according to DIN EN 50178, 04/98

Rated voltage	300 V	600 V
Rated surge voltage	4 kV	6 kV
Overtoltage category	III	III
Contamination class	2	2
Clearance and creepage distances	3 mm	5.5 mm
Test voltage	4 kV _{eff}	4 kV _{eff}

Supply / Output	Input / Output
300 V	600 V
4 kV	6 kV
III	III
2	2
3 mm	5.5 mm
4 kV _{eff}	4 kV _{eff}

General Data

Voltage supply	18 Vdc ... 24 Vdc ... 30 Vdc
Rated current consumption	40 mA...30 mA...24 mA (I _{out} = 20 mA)
Polarization protection	yes
Cross connection above	+24 V, max. current: 2 A
Cross connection below	0 V max. current: 2 A
Operating temperature	0...50 °C
Storage temperature	-20...+70 °C
Factory setting	0...10 V / 0...20 mA
Dimensions L/H/W (mm)	92.4 / 112.4 / 22.5
Weight	200 g
Approvals	CE cULus pending

* Tu 23°C, single module

Application

