

WAVESERIES
WAS4 CVC DC 4-20/0-10V
Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 16

D-32758 Detmold

Germany

Fon: +49 5231 14-0

Fax: +49 5231 14-292083

www.weidmueller.com



The externally supplied ACT20M-CI-CO, MAS RPS/RPSH, MCZ CFC and WAS/WAZ 4/5 C signal converters/supply isolators can transmit, isolate and convert standardised

DC current signals. They are optionally available in widths of 6 mm (ACT20M/MCZ), 12.5 mm (WAS/WAZ4) or 17.5 mm (WAS/WAZ5).

The input and output circuits are completely electrically isolated, as is the power supply.

The input signal is converted into a DC current/voltage value (ACT20M, WAS/WAZ) or into a proportional frequency (MCZ CFC) between 0–1/4/8/16 kHz.

The WAVESERIES signal converters are available with a limiting frequency of either 10 Hz (WAS/WAZ4) or 20 kHz (WAS/WAZ5) so that they can process signals quickly.

The MAS/RPS/RPSH supply isolator can supply 2-wire sensors externally. They can also be used optionally to transmit the HART protocol (MAS RPSH).

The 24 VDC supply voltage can be cross-connected on the module side via the CH20M BUS profile (ACT20M series) or using the ZQV4N (MAS/MCZ) or ZQV 2.5N (WAS/WAZ) pluggable jumpers.

International approvals (such as ATEX Zone 2, UL C1D2 and FM Div2) permit use in explosion-risk zones.

General ordering data

Order No.	8445040000
Type	WAS4 CVC DC 4-20/0-10V
Version	WAVESERIES, Signal converter/disconnector
GTIN (EAN)	4032248056989
Qty.	1 pc(s).

WAVESERIES
WAS4 CVC DC 4-20/0-10V

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

Technical data

Dimensions and weights

Length	92.4 mm	Width	12.5 mm
Depth	112.4 mm	Net weight	110 g

Temperatures

Operating temperature	0 °C...+55 °C	Storage temperature	-20 °C...+85 °C
-----------------------	---------------	---------------------	-----------------

Input

Input current	4...20 mA (current loop)	Number of inputs	1
Voltage drop	Approx. 5.6 V at 20 mA		

Output

Cut-off frequency (-3 dB)	≥ 15 Hz (typ. 20 Hz)	load impedance voltage	≥ 1 kΩ
Number of outputs	1	Output voltage, note	0...10 V

General data

Accuracy	± 0.2 % of final value	Current consumption	< 20 mA @ I _{OUT} = 10 mA
Current-carrying capacity of cross-connect.	≤ 2 A	Galvanic isolation	2-way isolator
Humidity	40 °C / 93 % rel. humidity, no condensation	Input/Output	4...20 mA/ 0...10 V
Mounting rail	TS 35	Step response time	≤ 30 ms (typ. 20 ms)
Supply voltage	24 V DC ± 20 %	Temperature coefficient	≤ 250 ppm/K of final value
Type of connection	Screw connection		

Insulation coordination

Clearance & creepage distances	≥ 3 mm	EMC standards	EN 55011, EN 61000-6
Impulse withstand voltage	4 kV	Insulation voltage	1.2 kV _{eff} / 5 s
Insulation voltage input or output/rail	4 kV _{eff} / 1 min.	Insulation voltage input or output/supply	4 kV _{eff} / 1 min.
Pollution severity	2	Rated voltage	300 V
Standards	DIN EN 50178, DIN EN 61000-4-2	Surge voltage category	III

Classifications

ETIM 3.0	EC001774	eClass 6.0	27-21-01-20
eClass 7.0	27-21-01-20		

Approvals

Approvals



WAVESERIES
WAS4 CVC DC 4-20/0-10V**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

D-32758 Detmold

Germany

Fon: +49 5231 14-0

Fax: +49 5231 14-292083

www.weidmueller.com

Technical data**Downloads**

Package insert	IS_WAVE_CCC_DC_Print.pdf
Declaration of Conformity	K176_06_09.pdf
EPLAN	8445040000.ema
3-D model	

WAVESERIES
WAS4 CVC DC 4-20/0-10V

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

Drawings**Electric symbol**