Isolation Converter

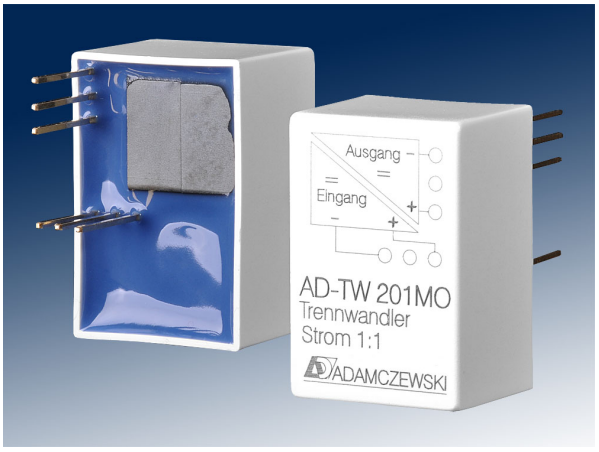
AD-TW 201 MO

Description

The separation converter serves the galvanic separation of impressed currents. It obtains its auxiliary energy form the input signal. The connection of an additional auxiliary voltage is not necessary. The output current is independent of the connected load up to the maximum value.

Application

Economic separation of computer inputs, protection of sensitive units against potential delay, galvanic decoupling in complex measuring units.



Business data

Order number

AD-TW 201 MO

Information

Downloads

Safety instructions	ad-safety-instructions.pdf

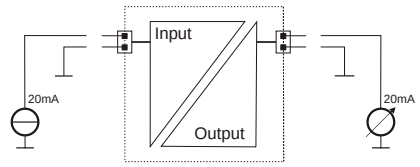
Technical specifications

Input current	
Measuring range	0 ... 20 mA
Input voltage	< 25 V
Drop voltage	< 2,5 V
Oscillation current	< 80 µA
Output current	
Output range	0 ... 20 mA
Max. burden	500 Ohm
Burden error	-0,03% / 100 Ohm
Residual ripple	0,5 % (500 Ohm; 20 mA)
Transmission behaviour	
Basic accuracy	< 0,3 %
Input / output	1 : 1
Temperature influence	50 ppm/K
Response time	~ 20 ms
Transmission frequency	500 Hz (500 Ohm)
Housing	
Dimensions (WxHxD)	20x30x16,5 mm
Type of protection	IP 20
Connection method	soldering pins
Weight	~ 25 g
Environmental conditions	
Ambient temperature	-10 ... 50 °C
Storage and transport	-10 ... 70 °C (no condensation)
EMC	
Product family standard	EN 61326-1 [1]
Emitted interference	EN 55011, CISPR11 Cl. B, Gr. 1
Galvanic isolation	
Base isolation, functional separation	
Working voltage	50 V DC
Test voltages input / output	500 V, 50 Hz (1 min.)

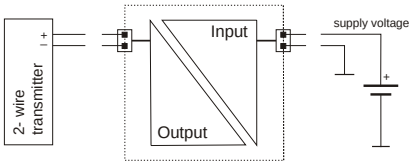
[1] During checking, slight signal deviations are possible.

Block and wiring diagram

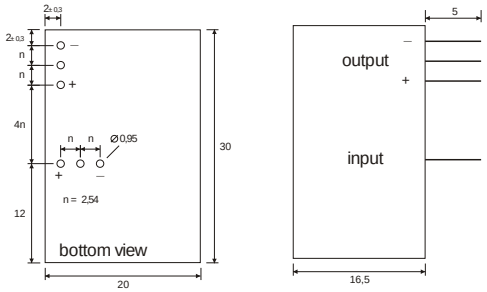
Isolation of active current signals



Isolation of transmitter signals



Dimensions



SALES & ADVICE

GRUBATEC MESS- UND REGELTECHNIK

MANUFACTURER

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Subject to technical changes and printing errors.