Isolation Converter

AD-TW 21 GVD

AD-TW 25 GVD

Description

The passive AC current separation transducer serve the conversion of AC currents of magnitudes 0-1 A AC or 0-5 A AC in an impressed DC current of 0-20 mA. The galvanically separated output signal is, up to a maximum value, independent of the connected burden. The separation transducer does not require an auxiliary energy, the necessary energy is gained from the measuring signal.

Application

Remote transmission of current transducer signals, galvanic separation and coupling to systems with 0-20 mA inputs.



Specific characteristics

- for 1 A AC or 5 A AC current transducer signals
- galvanically separated output 0-20 mA
- no auxiliary energy required
- connection terminals can be pulled off

Business data

Order number

AD-TW 21 GVD	input 0 ... 1 A AC
AD-TW 25 GVD	input 0 ... 5 A AC

Information

Downloads

Safety instructions	ad-safety-instructions.pdf

Technical specifications

Input current

AD-TW 21 GVD	0 ... 1 A AC (50Hz Sinus)
AD-TW 25 GVD	0 ... 5 A AC (50Hz Sinus)

Output current

Max. output range	0 ... 20 mA
Max. burden	400 Ohm
Load influence	-0,12% / 100 Ohm

Transmission behaviour

Basic accuracy	< 0,3 % of full scale
Temperature influence	< 30 ppm/K
Response time	< 0,5s (0 ... 90 %)

Supply

Passive, no power supply required!

Self-consumption via input signal	~ 1,6 VA

Housing

Manner of fastening	DIN rail 35mm (EN 50022)
Type of protection	IP 20
Connector cross section	max. 2,5 mm²
Weight	~ 285 g

Environmental conditions

Ambient temperature	-10 ... 50 °C
Storage and transport	-10 ... 70 °C (no condensation)

EMC

Product family standard [2)]	EN 61326-1
Emitted interference	EN 55011, CISPR11 Cl. B, Gr. 1

[2)] During electromagnetic disturbance minor changes in output signal are possible.

Electrical safety requirements

Product family standard	EN 61010-1
Overvoltage category	II
Pollution degree	2

Galvanic isolation, test voltages

Signal/auxiliary voltage	2 kV (1 min)

Protective systems

Input/output	over voltage and over current

SALES & ADVICE

GRUBATEC MESS- UND REGELTECHNIK

MANUFACTURER

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Subject to technical changes and printing errors.

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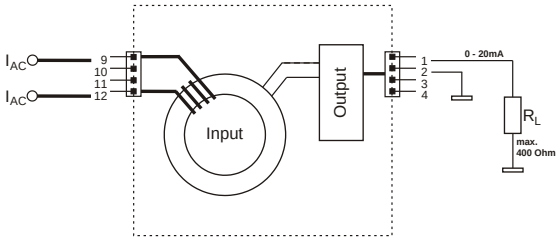
Block and wiring diagram



Dimensions

