

Isolating Converter

AD-TW 201 ST
AD-TW 201 GS
AD-TW 202 GS

Description

The passive isolation converter converts an impressed current signal of 4-20 mA to a linear output signal (input = output 1:1). The output signal is galvanically separated from the input and does not have any reactive influence on the input signal. The separation transducer does not require any auxiliary energy, the low energy required for operation is won from the input signal.

Application

Economic galvanic separation with simultaneous signal conver-

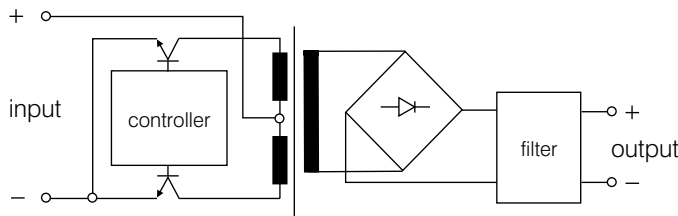
sion, without auxiliary energy. Protection of sensitive units against over voltage, galvanic decoupling in complex measuring units.

Specification

Type survey:	AD-TW 201 ST	1-channel cartridge incl. basic terminal
	AD-TW 201 GS	1-channel switchboard housing
	AD-TW 202 GS	2-channel switchboard housing
Input:		impressed current signal 0/4-20 mA
Voltage drop:		$U_w \approx 2,0 \text{ V}$ with $I_{\text{input}} = 20 \text{ mA}$
Output:		4-20 mA (input=output 1:1)
Max. load:		500 Ohm with $I_{\text{input}} = 20 \text{ mA}$
Load error:		0,05%/100 Ohm
Ripple frequency		< 0,5% with 500 Ohm and 20 mA output current
Transfer frequency:		max. 500 Hz with 500 Ohm
Response time:		input span: 4-20 mA, output: 10-90%, 50 ms
Insulation test voltage:		input/output 500 V/DC
Protective circuit:		input against confusing the poles and over voltage
Ambient temperature:		0 to +50°C
Temperature drift:		approx. 50 ppm/°K

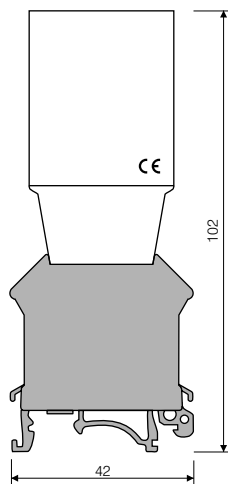
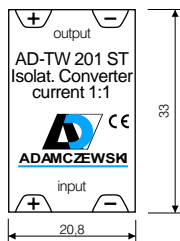


Connections and dimensions: AD-TW 201 ST

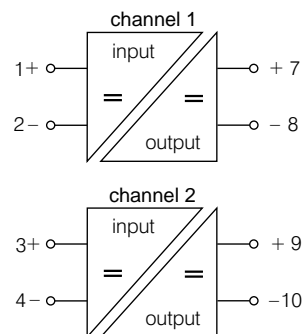


weight: ca. 100 g
protection: IP 20
manner of fastening:
DIN rail 35mm (EN50022)

connection data:
fine-wire: 2,5 mm²
single-wire: 4,0 mm²

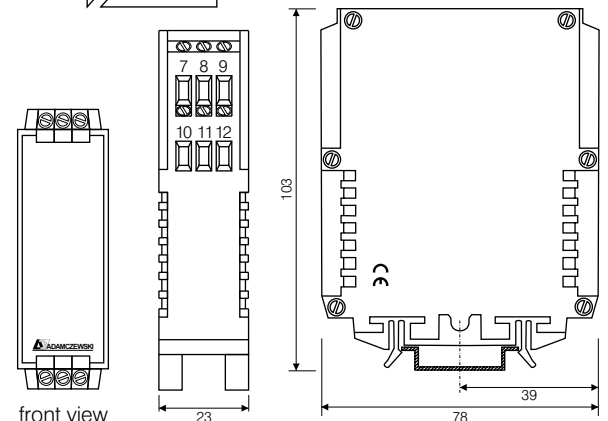


AD-TW 201-202 GS (1 or 2-channel)



weight: ca. 150 g
protection: IP 20
manner of fastening:
DIN rail 35mm (EN50022)

connection data:
fine-wire: 2,5 mm²
single-wire: 4,0 mm²
max. voltage: 250 V~



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ADAMCZEWSKI
Elektronische Messtechnik GmbH

Felix-Wankel-Str. 13
Tel. +49 (0)7046-875
vertrieb@ad-messtechnik.de

74374 Zaberfeld
Fax +49 (0)7046-7678
www.adamczewski.com