Isolation Amplifier

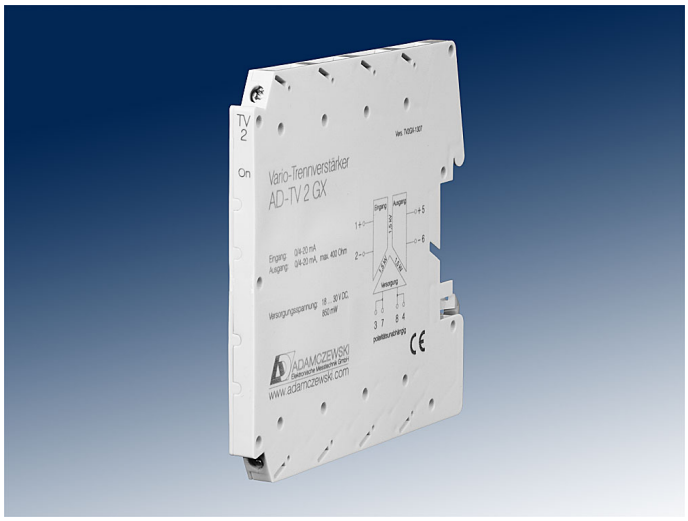
AD-TV 2 GX

Description

The isolation amplifier AD-TV 2 GX, with a construction width of only 6.2 mm, serves the galvanic separation of DC current signals. The output signal follows linear the input variable and is, up to a limiting value, independent of the connected burden (0/4-20 mA, 1:1 input/output). Due to the narrow design, a high packing density is achieved. In combination with a DIN rail connector, the wiring is considerably reduced.

Application

Burden amplification and galvanic disconnection of impressed DC current signals.



Specific characteristics

- narrow 6.2mm construction
- Supply via DIN rail connector

Business data

Order number

AD-TV 2 GX

Accessory

DIN-rail connector	AD-GX Connector

Information

Downloads

Tender text	tv2gx.zip
Safety instructions	ad-safety-instructions.pdf

Technical specifications

Input current

Measuring range	0 ... 20 mA
Input resistance	50 Ohm

Output current

Output range	0 ... 20 mA
Max. burden	400 Ohm
Residual ripple	< 0,1 %
Open-circuit voltage	< 13V

Transmission behaviour

Response time	< 50 ms (10-90 %)
Linearity error	< 0,1 % of full scale
Temperature influence	< 70 ppm/K of full scale

Supply

Voltage range	18 ... 30 V DC
Nominal voltage	24 V DC
Power consumption	< 850 mW

Housing

Dimensions (WxHxD)	6,2 x 92 x 101 mm³
Manner of fastening	DIN rail 35mm EN 50022
Type of protection	IP 20
Connection method	screw clamp (2,5 mm² flex wire / 4 mm² one wire)
Bolting torque terminals	0,5 Nm
Weight	~ 70 g

Environmental conditions

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

EMC

Product family standard	EN 61326-1

During electromagnetic disturbance minor changes in output signal are possible.

Emitted interference	EN 55011, CISPR11 Cl. A, Gr. 1

Warning:
This device is not intended to be used in residential areas and can not ensure adequate protection of radio reception in such environments.

Electrical safety requirements

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

Galvanic isolation, test voltages

Input/output	1,5 kV, 1 min
Signal/auxiliary voltage	1,5 kV, 1 min

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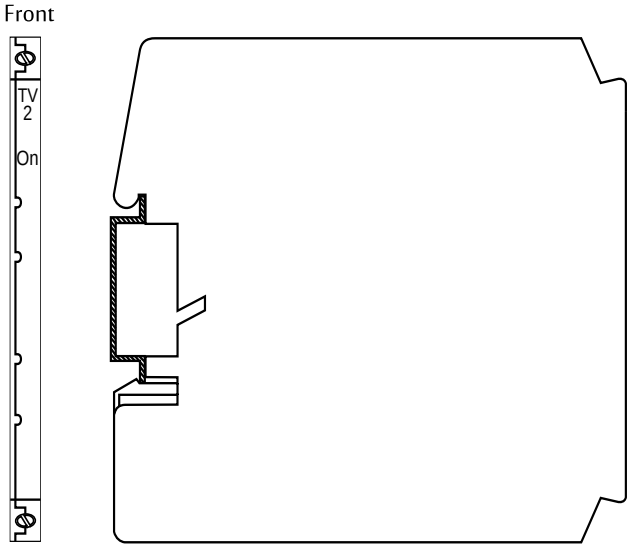
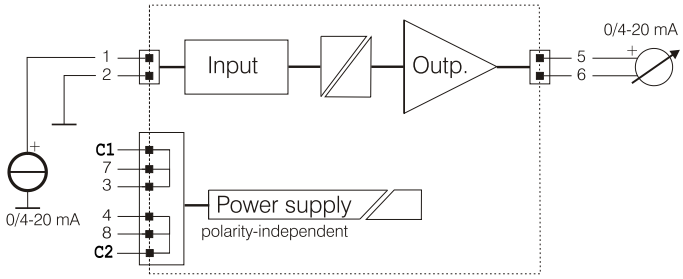
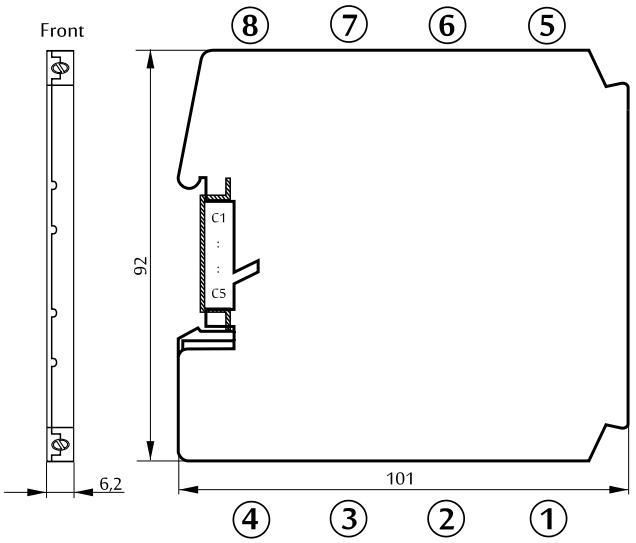
Display and operating elements



Designation	LED	Meaning
On	green	Power supply

Block and wiring diagram



Dimensions