Isolation Amplifier

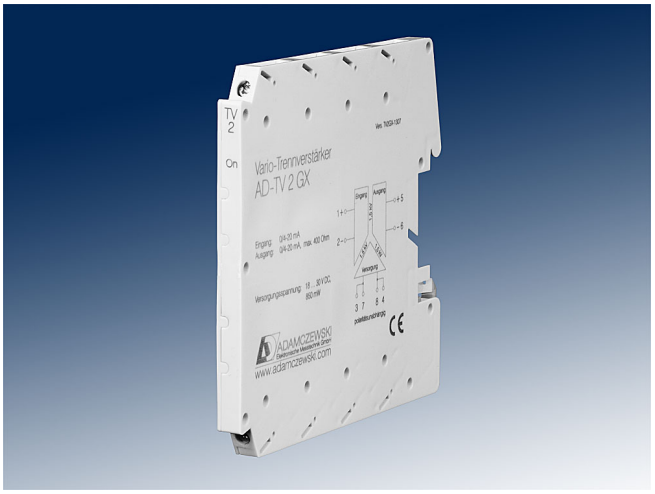
AD-TV 2 GX

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

SALES & ADVICE

GRUBATEC MESS- UND REGELTECHNIK

MANUFACTURER

ADAMCZEWSKI Elektronische Messtechnik

Grubatec AG · Wölferstrasse 5 · CH-4414 Füllinsdorf

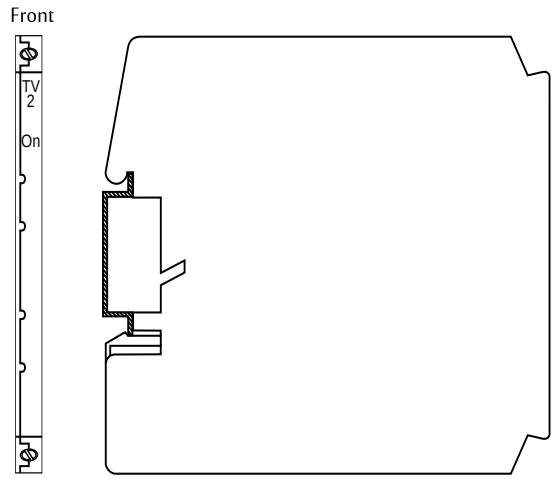
+41 55 617 00 80 · info@grubatec.ch · www.grubatec.ch

Subject to technical changes and printing errors.

Isolation Amplifier

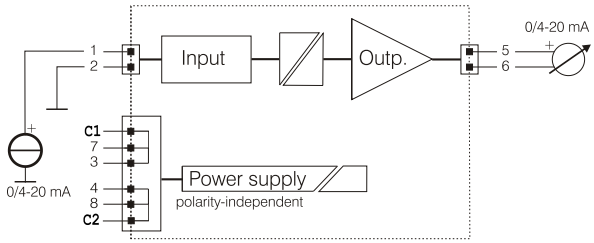
AD-TV 2 GX

Display and operating elements

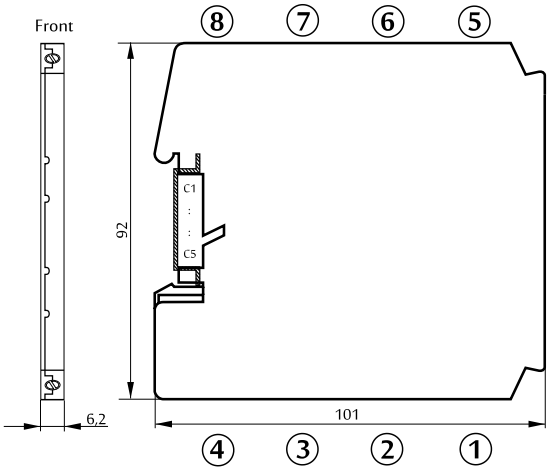


Designation	LED	Meaning
On	green	Power supply

Block and wiring diagram



Dimensions



Subject to technical changes and printing errors.