

# Isolation Amplifier

AD-TV 3 GX

## Description

The VARIO isolation amplifier AD-TV 3 GX, with a construction width of only 6.2 mm, serves the galvanic separation, conversion and amplification of DC current signals and voltage signals (0/4-20 mA and 0/2-10 V). The signal magnitudes can be selected with DIP switches. For range changing, manual adjustment is required, the initial values and final values can be adjusted via a trimmer. The output signal follows linear the input variable and is, up to a limiting value, independent of the connected burden. Due to the narrow design, a high packing density is achieved. In combination with a DIN rail connector for bridging the supply voltage, the wiring is considerably reduced.

## Application

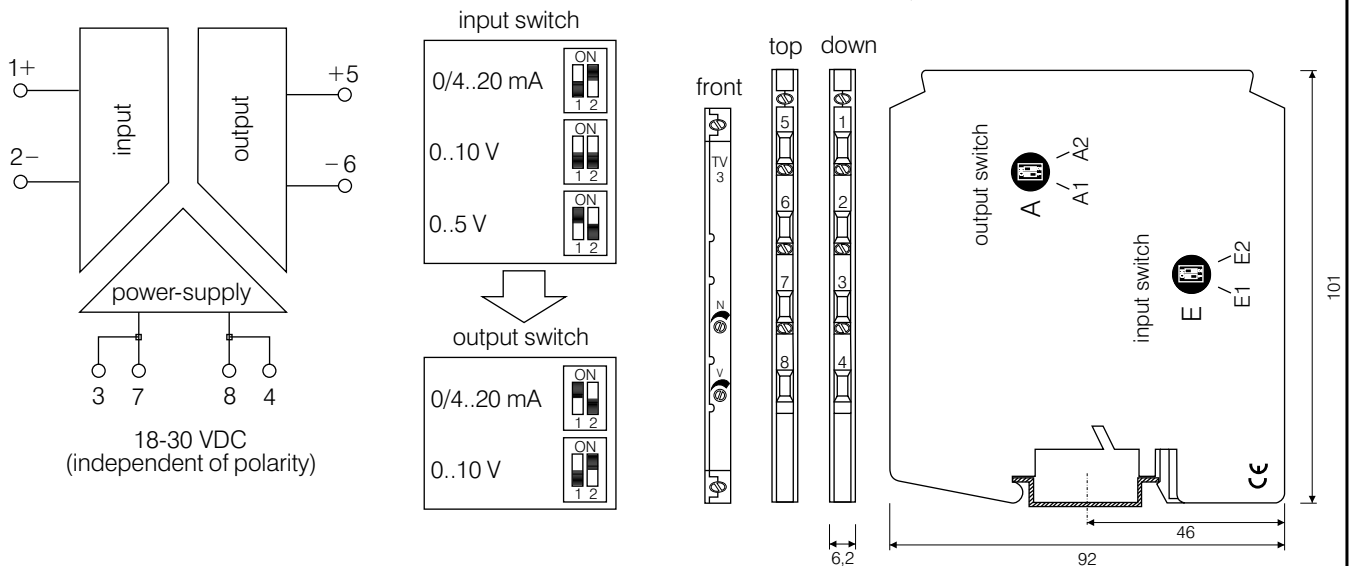
Conversion, burden amplification and galvanic disconnection of impressed DC current signals and voltage signals.



## Specification

construction	1-channel switchboard housing 6,2 x 92 x 101 mm (WxHxD)
power-supply	18-30 VDC
power-consumption	max. 850 mW (dependent upon signal)
input	0/4-20 mA, 0-10 V or 0-5 V over DIP switch selectable
input impedance	50 Ohm with 20 mA input 50 kOhm with 5 V input 100 kOhm with 10 V input
trimmer	to trim the zero and scale-span
output	0/4-20 mA or 0-10 V over DIP switch and trimmer adjustable
output load	max. 500 Ohm with 20 mA or min. 500 Ohm with 10 V
open-circuit voltage	max. 13V with current output
short-circuit current	max. 28 mA with voltage output
accuracy	0,1% of full scale
linearity error	max. 0,1% of full scale
response time	< 50 ms (10-90%)
ripple	< 0,1%
ambient-temperature	0-50°C
effect of temperature	< 70 ppm/K
insulation test voltage	1,5kV, 50Hz (1 min. all isolating distances)
protective systems	against pulsed over-voltage, over-current and polarity reversal
EMC	
Product family standard	EN 61326
Emitted interference	EN 55011, CISPR11 Cl. A industry
Electrical safety requirements	
Product family standard	EN 61010-1

## Connections and dimensions: AD-TV 3 GX



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