# Isolation Amplifier "Vario"

## AD-TV 33 GL

#### Description

The vario-separation amplifier AD-TV 33 GL serves the galvanic separation and amplification of standard DC analogue signals.

The standard signals 0-20 mA, 4-20 mA and 0-10 V are freely selectable at the front via switches at the input as well as at the output. All measuring ranges are permanent calibrated, however, they can still be adjusted via potentiometer at the front, which can be switched on. The selected output signal follows linear the input magnitude and is independent from the connected load up to a limiting value.

Input, output and the supply voltage are galvanically separated from each other with a high insulation. An integral electronic wide range power pack with high efficiency prevents strong increases in temperature and allows high output loads. A high pack density is achieved in combination with the narrow type of construction. The universality saves storage costs, a diversity of types is therefore eliminated.



#### **Application**

For load amplification, galvanic decoupling and conversion of impressed standard signal measuring magnitudes.

#### Specification

- all standard signals at input and output are freely selectable
- switchable zero point trimmer and final value trimmer
- high output load
- 18 mm narrow housing

#### Specification

Construction Power-supply

Power-consumption

Input

Input impedance

Output

Output load

linearity error Effect of temperature Insulation test voltage

Protective systems

1-channel switchboard housing wide-range power supply

20-253 VDC / 50-253 VAC (50-60Hz)

approx. 2,8 VA resp.1,5 W 0-20mA; 4-20mA or 0-10V

freely selectable on the front panel 50 Ohm (current), 200 kOhm (voltage)

0-20 mA; 4-20mA or 0-10V freely selectable on the front panel

max. 500 Ohm (current) min. 500 Ohm (voltage)

< 0,2% < 100 ppm/K

input/output: 3,75 kV RMS signal/power-supply: 4 kV RMS input/output: against over-voltage, polarity reversal, over-current power-rack: against over-voltage, over-current, over-temperature

EMC

Product family standard Emitted interference

Electrical safety requirements

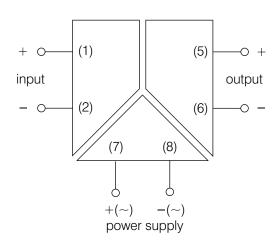
Product family standard EN Ambient temperature 0...

EN 61326

EN 55011, CISPR11 CI. B

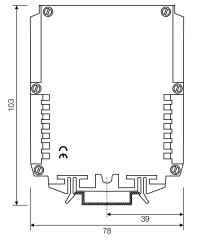
EN 61010-1 0...+50°C

Connections and dimensions: AD-TV 33 GL



weight max. 200 g protection: IP 20 manner of fastening: attachment rail: NS35/7,5

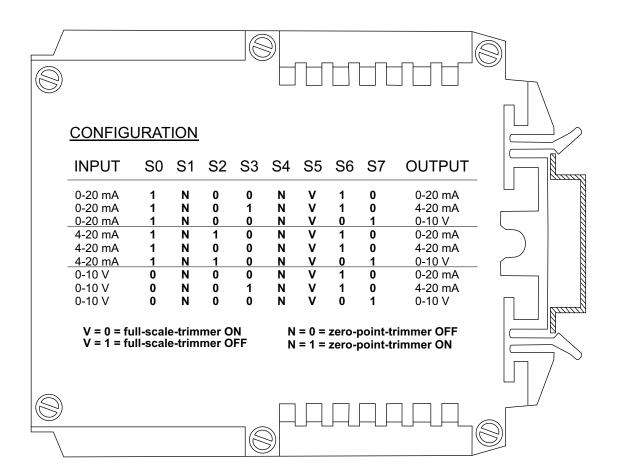
connection data: fine-wire: 2,5 mm² single-wire: 4 mm² max. voltage: 250 V~



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### Input and output settings:



#### DIP switch function:

S0: input (current or voltage)

S1: zero-point-trimmer enabling

S2: input signal 4...20 mA

S3: output signal 4...20 mA

S4: zero-point-trimmer enabling

S5: full-scale-trimmer enabling

S6: output signal (current)

S7: output signal (voltage)

Enabling the trimmer allows to modify the calibrated values.

Placing back the trimmer, reset the signals to the default.

