

Description

The supply isolation amplifier AD-STV 24 GL serves the galvanic isolation and amplification of current signals in the range 0/4...20 mA. The transmitter is supplied by an isolated and limited supply voltage. Input, output and power supply are galvanically isolated. The electronic wide range power supply avoids an excessive heating. In combination with the small shape, high packing densities can be achieved.

Application

Supply of 2- or 3-wire transmitters like pressure or temperature transmitters and galvanic signal isolation.



Specific characteristics

- 3-way isolation of input, output and supply
- Current transfer ratio 1:1, input = output
- Integrated current-limited power supply

Business data

Order number
AD-STV 24 GL

Information

Downloads

- Tender text [stv24gl.zip](#)
Safety instructions [ad-safety-instructions.pdf](#)

Technical specifications

Input current

Measuring range	0 ... 20 mA; 4 ... 20 mA
Input resistance	50 Ohm

Transmitter supply

Open-circuit voltage	< 24 V
At 20 mA	> 17 V
Current limit	< 30 mA

Output current

Output range	0 ... 20 mA; 4 ... 20 mA
Max. burden	< 400 Ohm

Transmission behaviour

Linearity error	< 0,3 %
Temperature influence	< +/-100 ppm/K

Supply

Voltage range	20 ... 30 V DC
Power consumption	< 1,4 W

Housing

Manner of fastening	DIN rail 35mm EN 50022
Type of protection	IP 20
Connector cross section	max. 2,5 mm ²
Weight	ca. 90 g

Environmental conditions

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

EMC

Product family standard	EN 61326-1
Emitted interference	EN 55011, CISPR11 Cl. B, Gr. 1

During electromagnetic disturbance minor changes in output signal are possible.

Electrical safety requirements

Product family standard	EN 61010-1
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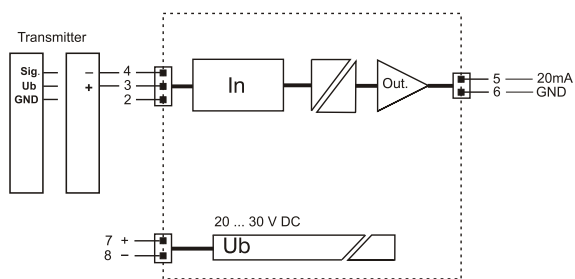
Galvanic isolation, test voltages

Input/output	3,75 kV, 1 min
Signal/auxiliary voltage	3 kV, 1 min

Supply Isolation Amplifier

AD-STV 24 GL

Block and wiring diagram



Dimensions

