

### Description

The supply isolation amplifier AD-STV 22 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-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 22 GL

### Information

#### Downloads

Tender text

[stv22gl.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 ... 253 V DC; 50 ... 253 V AC
Power consumption	1,5 W, 3 VA

#### Housing

Manner of fastening	DIN rail 35mm EN 50022
Type of protection	IP 20
Connector cross section	2,5 mm <sup>2</sup> flex wire, 4 mm <sup>2</sup> one wire
Weight	ca. 90 g
Bolting torque terminals	0,5 Nm

#### Environmental conditions

Ambient temperature	-10 ... 70 °C
Storage and transport	-20 ... 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
Overvoltage category	II
Pollution degree	2

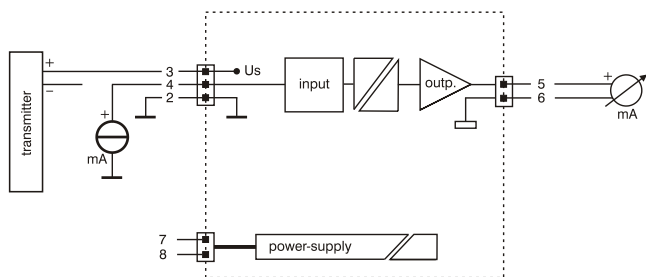
#### Galvanic isolation, test voltages

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

# Supply Isolation Amplifier

AD-STV 22 GL

## Block and wiring diagram



## Dimensions

