

# Supply Isolation Amplifier

AD-STV 24 GL

## 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.



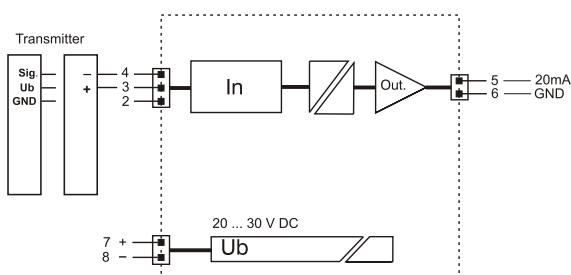
## Specific characteristics

- 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

## Block and wiring diagram



## 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<sup>2</sup>  
Weight ca. 90 g

### Environmental conditions

Ambient temperature 0 ... 50 °C  
Storage and transport -10 ... 70 °C (no condensation)

### EMC

Product family standard EN 61326  
Emitted interference EN 55011, CISPR11 Cl. B  
During electromagnetic disturbance minor changes in output signal are possible.

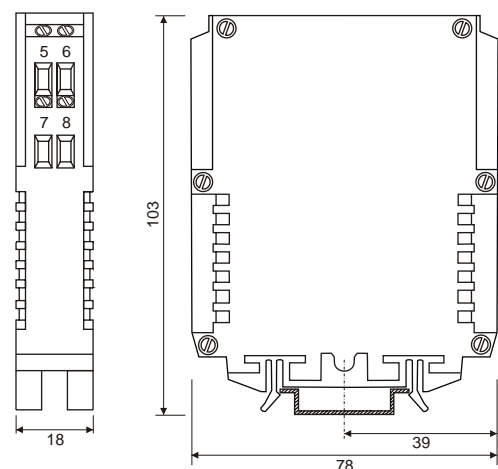
### Electrical safety requirements

Product family standard EN 61010-1

### Galvanic isolation, test voltages

Input/output 3,75 kV, 1 min  
Signal/auxiliary voltage 4 kV, 1 min

## Dimensions



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