

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.



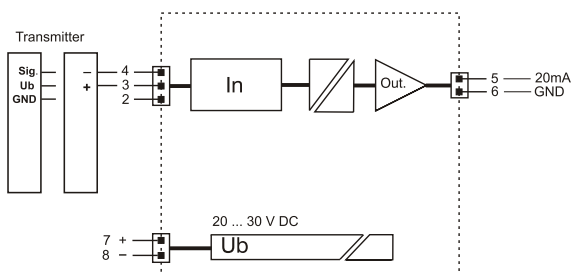
Specific characteristics

- 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 mm²
Weight ca. 90 g

Environmental conditions

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

EMC

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

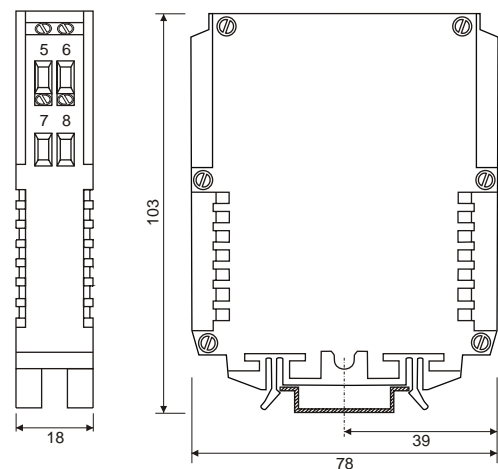
Electrical safety requirements

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



ADAMCZEWSKI
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Page 1/1

Printed 21.01.2016 We reserve the right for technical changes.

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