

# Supply Isolation Amplifier

## AD-STV 300 GS

### Description

The isolation amplifier of type range AD-STV 300 serves as galvanic isolation and amplification of transmitter signals (4-20mA). The 2-wire transmitter is supplied directly via a galvanically isolated and limited supply voltage of 24V DC. The signal is registered, galvanically isolated, converted and amplified. Input/output and the supply voltage are galvanically isolated from each other. At the output all three standard signals are freely available without commutation. The output signal is independent from the connected load up to a maximum value.

### Application

Supply and measuring registry of 2-wire transmitters such as pressure transmitter, temperature transmitter and others at simulta-

neous amplification and galvanic isolation and conversion to selectable standard signal.

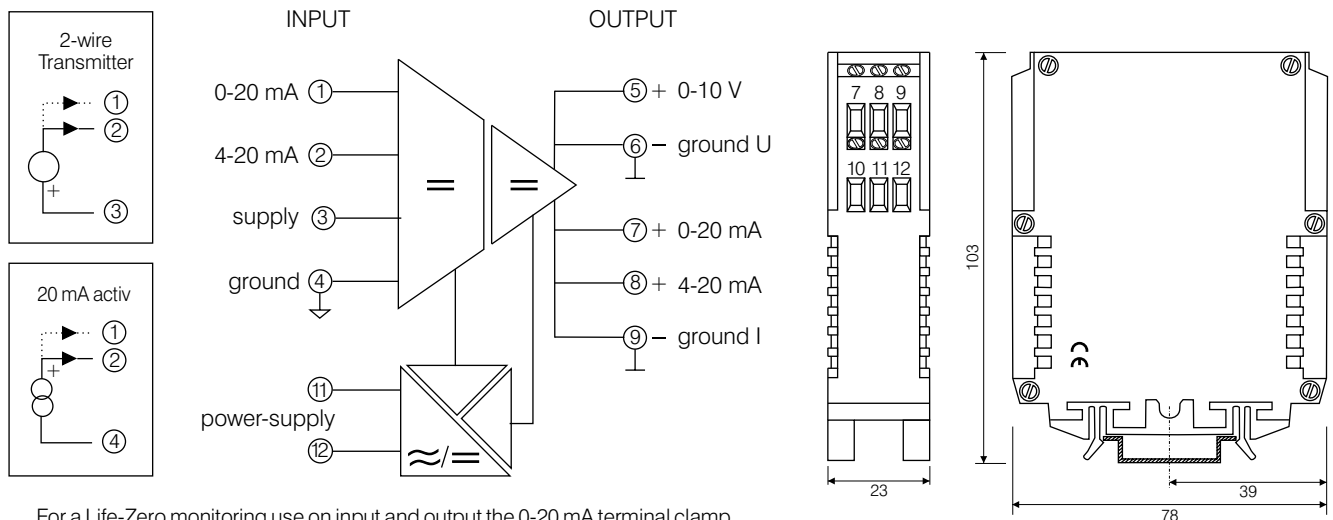
### Specification

Construction type:	1-channel switchboard housing
Power supply:	Allpower 20-253V DC/AC (50-60Hz)
Power consumption:	ca. 2,5VA resp. 4W
Input:	2-wire transmitter (4-20mA)
Transmitter supply:	20V DC in no -load operation 14V with 20mA
Output:	selectable 0-20mA, 4-20mA, 0-10V
Output-load:	current: max 650 Ohm voltage: min. 500 Ohm
Linearity:	< 0,5 %
Effect of temperature:	< 50 ppm/K
Max. useable frequency:	500Hz with 500 Ohm load
Insulation voltage:	input/output: 1,5 kV RMS
signal/power supply:	4 kV RMS
Protective systems:	input/output: against over-voltage, over-current, confusing the poles power-rack: against over-voltage, over-current, over-temperature
Ambient temperature:	0 - 50°C



### Connections and dimensions: AD-STV 300 GS

weight:	ca. 140 g	connection data:
protection:	IP 20	fine-wire: 2,5 mm <sup>2</sup>
manner of fastening:		single-wire: 4,0 mm <sup>2</sup>
DIN rail:	NS35/7,5	max. voltage: 250 V~



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