

# Isolation Amplifier

AD-TV 200 GS

## Description:

The active isolation amplifiers AD-TV 200 GS serve for galvanic separation, for the amplifying and for converting of analogue-standard signals 0-20 mA; 4-20mA; 0-10V. The offset and the amplification can be adapted by means of two frontal placed potentiometers. Due to the integral electronic powerpack, heating up is excluded as much as possible, the narrow GS-units can be fitted without distances. All signal sizes are galvanic isolated from each other and from the supply voltage (3-way isolation), the output signal is independent from the output load up to the maximum value.

## Application:

Galvanic isolation, amplification and transformation of analogous signals.

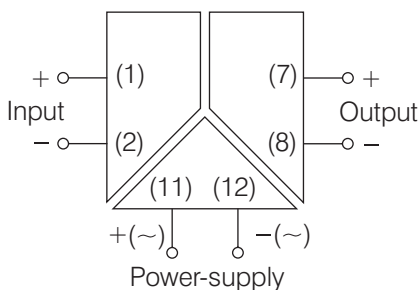
## Technical data:

construction type:	1 channel switchboard housings
power supply:	20...253 VDC / 50...253 VAC
power consumption:	approx. 2W resp. 2 VA
input:	0-20mA; 4-20mA; 0-10V (*)
input-Resistance:	50 Ohm with current-input 100 kOhm with voltage-input
output:	0-20mA; 4-20mA; 0-10V (*)
output load:	max. 500 Ohm with current-input min. 1 kOhm with voltage-input
linearity error:	< 0,2 %'
influence of temperature:	< 100 ppm/K
build-up time:	ca. 5 ms (0-90%)
ripple frequency:	< 50 mVss
insulation test voltage:	input/output: 3,75 kV RMS signal/power supply: 4 kV RMS
protective systems:	input/output against over voltage, polarity reversal and over current power supply: against over voltage, over current and over heating
CE-conformity	EN 50081-2, EN 50082-2
ambient temperature	0 to 50°C



(\*) values must be defined by order

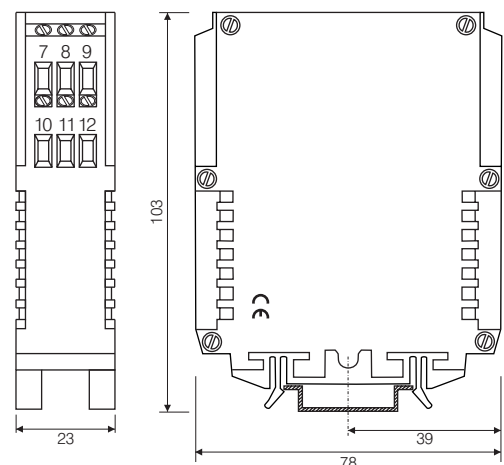
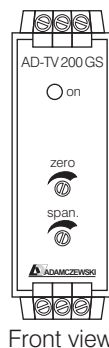
## Connections and dimensions: AD-TV 200 GS



weight 160 g  
protection: IP 20  
manner of fastening:  
attachment rail: NS35/7,5

connection data:  
fine-wire: 2,5 mm<sup>2</sup>  
single-wire: 4 mm<sup>2</sup>  
max. voltage: 250 V~

Order specification	input 0-20 mA	input 4-20 mA	input 0-10 V
output 0-20 mA	TV 200 GS-22	TV 200 GS-42	TV 200 GS-12
output 4-20 mA	TV 200 GS-24	TV 200 GS-44	TV 200 GS-14
output 0-10 V	TV 200 GS-21	TV 200 GS-41	TV 200 GS-11



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