

Set Value Buffer Amplifier

with remote activation, check back contact and transmitter supply

AD-TV 320 GS

Description

The set value buffer amplifier AD-TV 320 GS serves the galvanic separation, transformation and amplification of DC current and voltage signals (0/4-20mA or 0/2-10V). The device has additionally a transmitter supply and a set value function, which can be switched on.

The activation of the set value function is carried out selectable with a brief depression of the key at the front or with a control signal (24V active or contact) at the remote control input. Any output set value is set with the potentiometer at the front. Activation of zero trimmers and full trimmers is possible with longer depression of the set value key. With this, the signal magnitudes are adjustable in the range of $\pm 25\%$. An integral electronic wide range power pack allows operation in a wide supply area. Characteristics

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- Restoration of the last device condition on supply connection (i.e. after power cut).
- Setting of a set value is carried out undamped and independent of the trimmer positions between 0...100% of the specified output range.
- Check back contact in set value condition (closer).
- The output signal remains even with missing input signal at the output start (i.e. 4 mA).

Optionally available functions

- Increased signal damping (max. approx. 300s) possible at the works
- Inverse function possible (i.e. 0...20mA in 20...0mA).
- Optional linearization curve

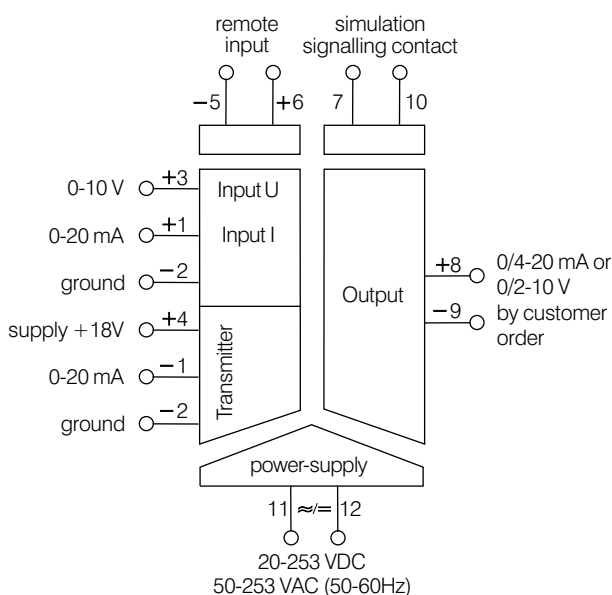
Application

Transformation, burden amplification and galvanic disconnection of impressed transmitter signals, current signals and voltage signals with additional simulation function via set value specification, which can be activated.

Specification

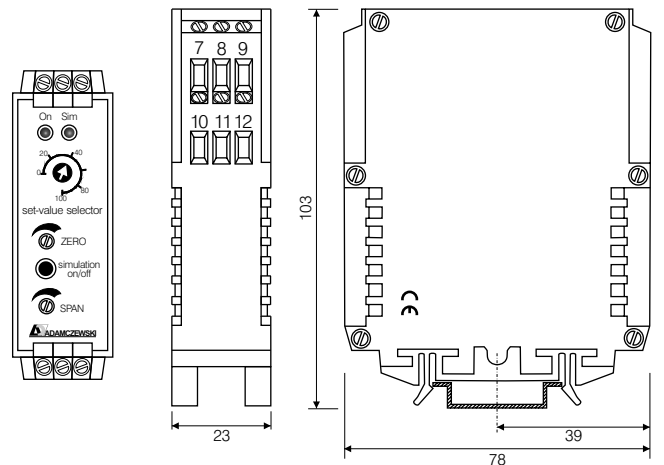
construction	1-channel switchboard housing
power-supply	wide range 20-253 VDC/50-253 VAC
power-consumption	max. 3,5VA resp. 2,0W
input	0/4-20 mA, 0/2-10V (to be specified with purchase order)
input impedance	approx. 50 Ohm (20mA)/90 kOhm (10V)
transmitter supply	current-limited 19V/25mA (no-load voltage approx. 26V)
output	0/4-20 mA, 0/2-10V (to be specified with purchase order)
output load	<500 Ohm (20mA) >500 Ohm (10V)
damping (filter)	as factory setting max. approx. 0,3%/s (linear, max. approx. 300s)
remote input (edge triggered)	10-30V, for contact use the transmitter-supply
remote pulse width	20...1.000ms or ∇
settling/fall time	(10-90%) approx. 50ms
zero/span trimmer	+/- 25%
linearization curve	24 plot-points (X/Y-chart at EEPROM)
green LED function	operating indicator, flashes when input signal overflow
red LED function	simulation display, flashes every 5 sec. by activated zero/span trimmer
nominal value selector	over front sided potentiometer 0-100%
linearity error	< 0,2%
effect of temperature	< 0,03% / K
insulation test voltage	input/output: 1,5 kV RMS signal/power-supply: 3 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

Connections and dimensions: AD-TV 320 GS



weight max. 200 g
protection: IP 20
manner of fastening:
attachment rail: NS35/7,5

connection data:
fine-wire: 2,5 mm²
single-wire: 4 mm²
max. voltage: 250 V~



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