

Analogue Memory

AD-AS 320 GS

Description

The analogue memory AD-AS 320 GS serves the galvanic separation, conversion and amplification of DC current signals and voltage signals (0/4-20mA or 0/2-10V).

The device can save an analogue value over an unlimited period.

With an active control signal (24V active or contact), the output signal follows the input signal. If the control signal is deactivated, the instantaneous output signal remains saved.

The saved value is also restored after a supply voltage failure. Alternatively, the analogue value can also be taken over to the output by pressing the memory key briefly.

An activation of zero trimmer and full trimmer is possible by pressing the memory key for longer (only in signal sequence mode). With this, the signal dimensions can be adjusted at the front in the range of $\pm 25\%$.

Special characteristics

- the device has additionally a transmitter supply available.
- restoration of the last device condition (power cut)
- feedback contact with memory condition (closer)

Optionally available functions

- increased signal attenuation (max. 300s) possible at the works
- inverse function possible (i.e. 0...20mA in 20...0mA).
- optional linearization curve

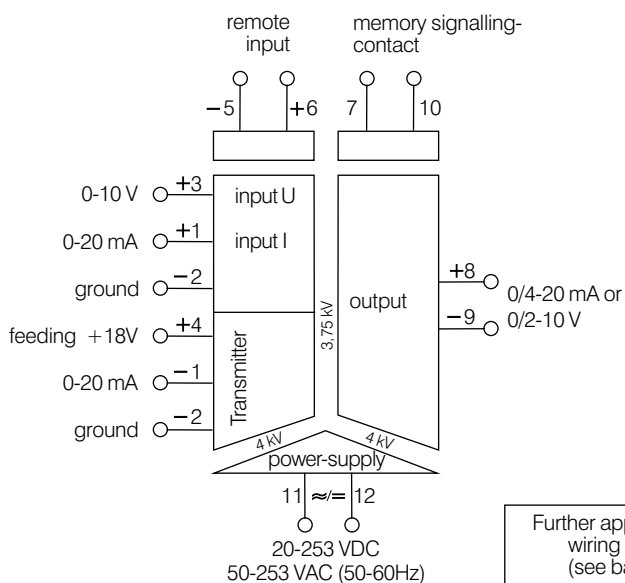
Application

Conversion, burden amplification and galvanic disconnection of impressed transmitter signals, current signals and voltage signals with additional memory function for maintenance work.)

Specification

Type of construction:	series housing 23x78x103mm (WxHxD)
Supply voltage	wide range (20-253 VDC/50-253 VAC)
Power consumption	max. 3,5VA or 2,2W
Input	0/4-20mA; 0/2-10V selectable via terminal
Transmitter supply	19V/max. 25mA (no-load run. approx. 26V)
Signal input resistance	50 Ohm at 20mA or 90kOhm at 10V
Output	0/4-20mA; 0/2-10V (acc. to customer data)
Output burden	< 500 Ohm/20mA or > 500 Ohm/10V
Damping (filter)	as works parameter max. approx. 0.3 %/s (linear, max. approx. 300s)
Remote control input	10...30V (min. 200ms) use transmitter supply for contact
Transient period/final oscillation time (10-90%)	approx. 150 ms
Zero trimmer, full trimmer	+/- 25 %
Linearizing curve	24 points (X/Y table in EEPROM)
LED (green)	operation indicator, flashes with input signal overflow
LED (rot)	remains lit in memory mode, flashes every 5 seconds with activated trimmer
Linearity error:	< 0.2 %
Temperature influence	< 0.03% / K
Insulation test voltage	input/output: 3.75 kV RMS signal/supply: 4 kV RMS
Protective systems	input/output: against over voltage, cross-polarity, over current power pack: against over current, over voltage, over temperature
CE conformity:	acc. to EN 50081-2, EN 50082-2
Ambient temperature:	0 to 50°C

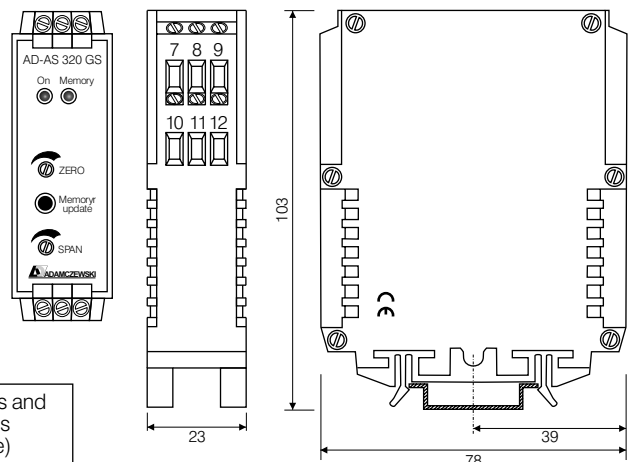
Connections and dimensions: AD-AS 320 GS



Further applications and wiring examples (see back page)

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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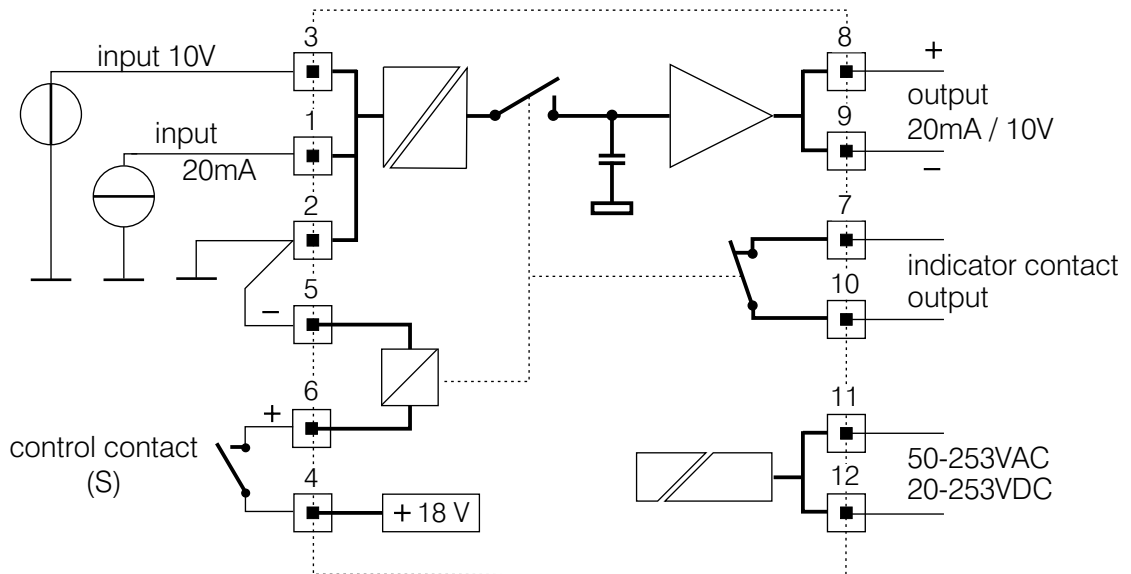


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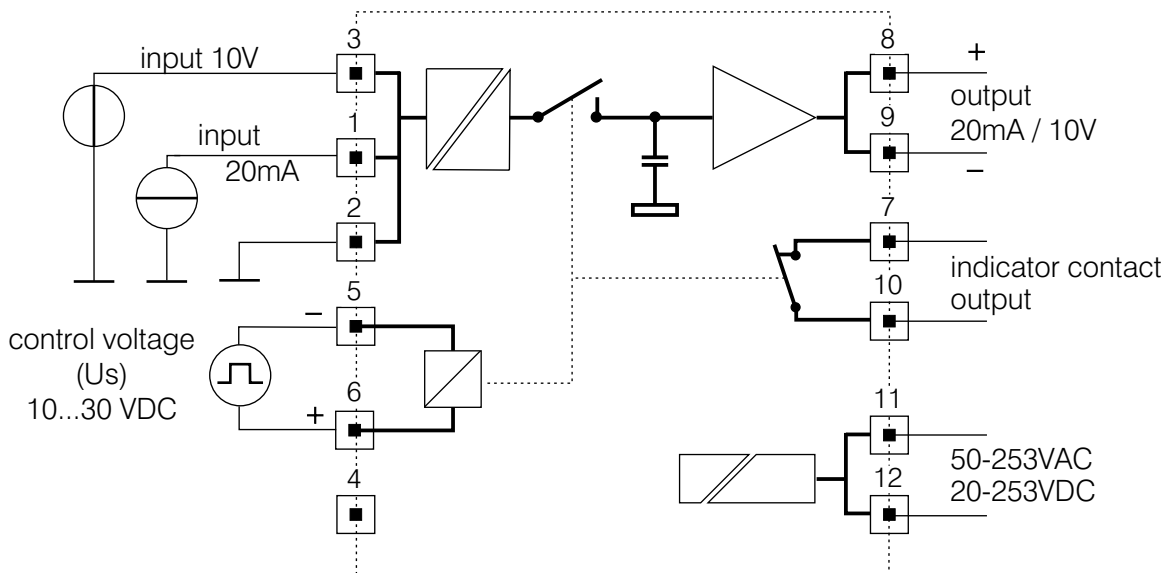
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Wiring examples with control contact (S)



Wiring examples with with activ control voltage (Us)



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