

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 $\pm 25\%$.

Application

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

**Specific characteristics**

- The device has additionally a transmitter supply available.
- Restoration of the last device condition (power cut).
- Feedback contact with memory condition (closer).
- Configurable via AD-STUDIO.

Business data**Order number**

AD-AS 320 GS

Information**Downloads**Safety instructions [ad-safety-instructions.pdf](#)**Technical specifications****Transmitter supply**

Feeding voltage 26 ... 19 V (4 ... 20 mA)
Current limit ~ 25 mA

Input current

Measuring range 0 ... 20 mA ¹⁾
Input resistance 50 Ohm

Input voltage

Measuring range 0 ... 10 V ¹⁾
Input resistance 100 kOhm (10 kOhm / Volt)

Output current

Output range 0 ... 20 mA ¹⁾
Max. burden 500 Ohm
Max. residual ripple 40 μ Ass

Output voltage

Output range 0 ... 10 V ¹⁾
Min. burden 1 kOhm
Max. residual ripple 20 mVss

Supply

Voltage range AC 50 ... 253 V AC, 50/60 Hz
Nominal voltage AC 230 V AC
Voltage range DC 20 ... 253 V DC
Nominal voltage DC 24 V DC
Input power AC/DC 3,5 VA / 2,0 W

Transmission behaviour

Basic accuracy < 0,2 % of full scale
Temperature influence 100 ppm/K of full scale
Response time 50 ms
Damping (optional) 0,3 %/s (linear max. ~300 s)
Trimmer function +/- 25%
Linearization (optional) 24 Punkte, interpoliert

Remote control

Input Optokoppler
Voltage 10 ... 30 V DC
Pulse controlled 200 ... 1000 ms
Static > 1000 ms
Front button ~ 200 ms

Housing

Dimensions (WxHxD) 23x78x103 mm
Type of protection IP 20
Connection method screw clamp
Terminals, wire cross section 2,5 mm² flex wire / 4 mm² one wire
Bolting torque terminals 0,5 Nm
Weight ~ 100 g
Manner of fastening 35 mm DIN rail 35mm

Environmental conditions

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

Technical specifications

EMC

Product family standard	EN 61326-1 ²⁾
Emitted interference	EN 55011, CISPR11 Cl. B, Gr. 1

Electrical safety requirements

Product family standard	EN 61010-1
Overvoltage category	II
Pollution degree	2

Galvanic isolation, test voltages

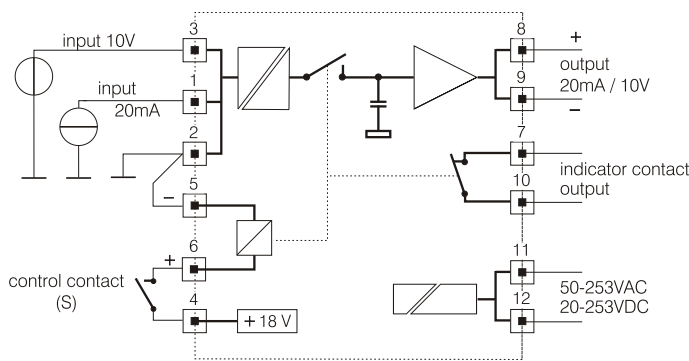
Input / output	1,5 kV, 50 Hz (1 min.)
Signal / supply unit	3 kV, 50 Hz (1 min.)

Protection circuits

Input	electrical surge protection
Output	electrical surge protection
Power supply	Protection against overvoltage reverse polarity

1) Values must be advised by order.
2) During checking, slight signal deviations are possible.

Block and wiring diagram



Dimensions

