Impulse Converter

Analogue-Pulse-Converter

AD-AI 200 GVC

Description

The analogue pulse converter AD-AI 200 GVC converts analogue signals to quantity signals, which, for instance, correspond to a flow or throughput. These pulses are outputted via the internal relay or, optionally, via a faster transistor. The AD-AI 200 GVC is equipped with a compact switching power supply, which works with high efficiency in a wide supply voltage range. The converter can be configured via the PC with an available parametric software AD-Studio. However, it can also be delivered preset.

Application

Producing quantity signals from a current or voltage signal. The exact description of the function can be found in the document "Functionality AI200GVC.pdf". Practical example 1: Input: 0...20 mA corresponds to a flow of 1000 l/h Output: 1 pulse/l Practical example 2: Input: 0...10 V corresponds to a throughput of 10 kg/min Output: 10 pulses/kg

Business data

Order number

AD-AI 200 GVC	relay output
AD-AI 200 GVCO	transistor output

Information

Downloads

Tender text	ai200gvc.zip
Function overview	sman-ai200gvc-ad-en.pdf
Order Help	help-ai200gvc-ad-en.pdf

Technical specifications

Input

Input current	0/4 ... 20 mA (Rin: 50 Ohm) resolution 10 Bit
Input voltage	0/2 ... 10 V (Rin: 100 kOhm) resolution 10 Bit

Relay output

Max. load AC	250 V / 2 A (cos phi = 1)
Max. load DC	50 V / 1 A (resistive load)
Cycles AC- load	2 A (cos phi = 1): ca. 110000
Cycles DC- load	1 A (resistive load): ca. 100000
Pulse duration	0,5 ... 5 s

Transistor output (optional)

Max. load DC	30V / 50mA
Pulse duration	0,05 ... 5 s (50% duty cycle at high frequency)

Supply

Voltage range	20 ... 253 V DC / 50 ... 253 V AC
Power consumption	max. 1,5 W / 2,6 VA (50 Hz)

Accuracy

Accuracy	< 0,2 %
Input (AD-Converter)	ca. 0,1 % of full scale

Housing

Dimensions (WxHxD)	18x110x134 mm
Type of protection	IP 20
Connection method	detachable terminal clamp (2,5 mm² flex wire / 4 mm² one wire)
Bolting torque screw terminals	0,5 Nm
Weight	135 g
Manner of fastening	DIN rail 35mm (EN 50022)

Environmental conditions

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

EMC

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

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Electrical safety requirements

Product family standard	EN 61010-1

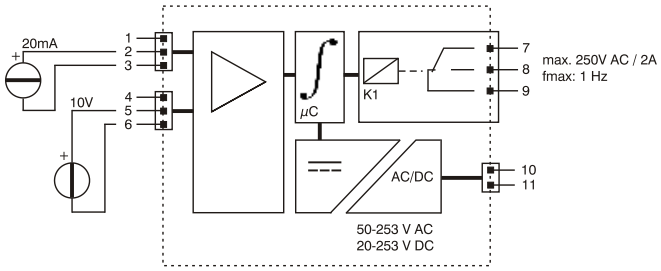
Galvanic isolation, test voltages

Input / output	4 kV (1 min.)
Signal / supply unit	4 kV (1 min.)

Protection circuits

Input	electrical surge protection
Power supply	electrical surge and reverse current protection
Relay output	no protection
Transistor output	electrical surge protection

Block and wiring diagram



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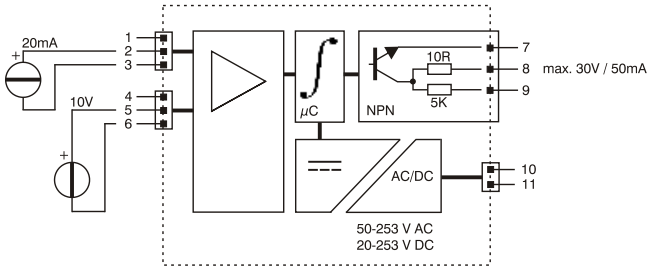

AD-AI 200 GVCO

Dimensions