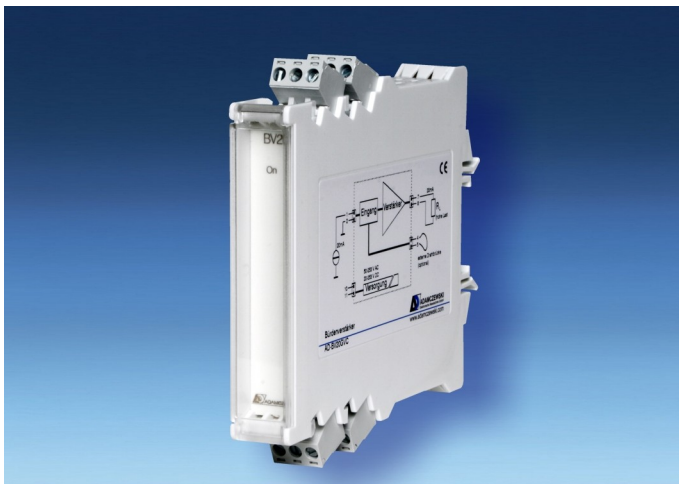


**Description**

The burden amplifier AD-BV 20 GVC serves the power amplification (burden increase) in application with high current loop resistance, i.e. line resistance. The burden amplifier is switched directly behind a present current source (i.e. separation amplifier AD-TV 22 GL), whereby the energy of the current source is also used. The device output of the total device chain is optimally utilised. The galvanic signal separation of the series separation amplifier continues to be realised.

**Application**

In applications where isolation amplifiers with e.g. max. 500 Ohm can no longer provide the required load voltage to bridge high line resistances.

**Business data**

**Order number**  
AD-BV 20 GVC

**Information**

**Downloads**  
Tender text [bv20gvc.zip](#)

**Technical specifications****Input current**

Input range	0 ... 20 mA
Required input voltage	6 V
Input voltage requirement with bridge cl. 4 and 5	2 V

**Output current**

Max. output range	0 ... 20 mA; 1:1
Max. burden	1000 Ohm
Maximum load with bridge cl. 4 and 5	1300 Ohm
No galvanic isolation to the input!	

**Transmission behaviour**

Basic accuracy	0,2 % of full scale
Temperature influence	< 10 ppm/K of full scale

**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
Power consumption AC / DC	1,5 VA / 1W

**Housing**

Manner of fastening	DIN rail 35mm (EN 50022)
Type of protection	IP 20
Connector cross section	max. 2,5 mm <sup>2</sup>
Weight	~ 140 g

**Environmental conditions**

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

**EMC**

Product family standard <sup>2)</sup>	EN 61326-1
Emitted interference	EN 55011, CISPR11 Cl. B, Gr. 1
<sup>2)</sup> During electromagnetic disturbance minor changes in output signal are possible.	

**Electrical safety requirements**

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

**Galvanic isolation, test voltages**

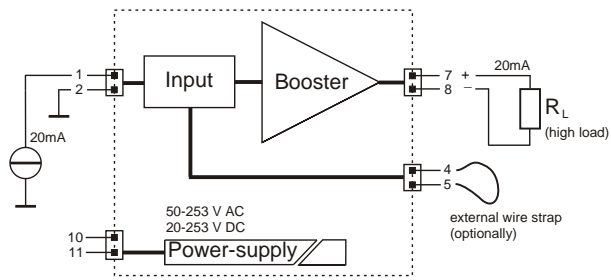
Signal/auxiliary voltage	3 kV (1 min)
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**Protective systems**

Input/output	over voltage and over current
Power supply	over voltage, over current and over temperature

# Burden Amplifier

## Block and wiring diagram



## Dimensions

