ME-Meßsysteme GmbH
Neuendorfstr. 18a
DE-16761 Henningsdorf
Tel +49 (0)3302 7 86 20 60
Fax +49 (0)3302 7 86 20 69
Mail info@me-systeme.de
Web www.me-systeme.de

GSV-2AS -5+5/250/2

Highlights

- Tare function via control cable
- RS232, RS485 or CAN/CANOpen
- analogue output ±5V
- optionally 4...20mA output signal
- 24 Bit, to 200.000 Digits display resolution
- extensive software support
- two threshold generator
- trigger input

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Description

The GSV-2 is regarded as the "classic" among the industrial measurement amplifiers for sensors with strain gauges. Maximum EMC protection according to degree of sharpness 4
(EN61000-4-2, 61000-4-4, EN50082-2) and beyond. IP66 housing and compactness are appreciated worldwide. Optionally, the GSV is equipped with a display, plug-in connectors or a zero-setting switch and amplifying switching over relay contacts.

The measuring amplifier GSV-2 is used in process monitoring and weighing technology.
Up to 2000 measured values per second can be transmitted via the RS232 serial interface. It has excellent digital filters. No filtering or averaging of the transferred measured values is necessary.
An analog output (0 ... 10V, or ± 5V or 4 ... 20mA) is also available.
The analog output can be set to 0 via a digital control input. The adjustment range is 200% of the measuring range.

The measurement rate and the outstanding software support are particularly noteworthy for a low-cost 24-bit measuring amplifier.
The comprehensive software package ME GSV Control is included in the scope of supply.
The setting of the measuring amplifier or the measuring rate, switching thresholds or display is made either via control signals or via the software ME GSV Control.
For software developers Windows DLL is available for the integration of the functions.

There are various functions available,like automatic zero-point correction and noise suppression.

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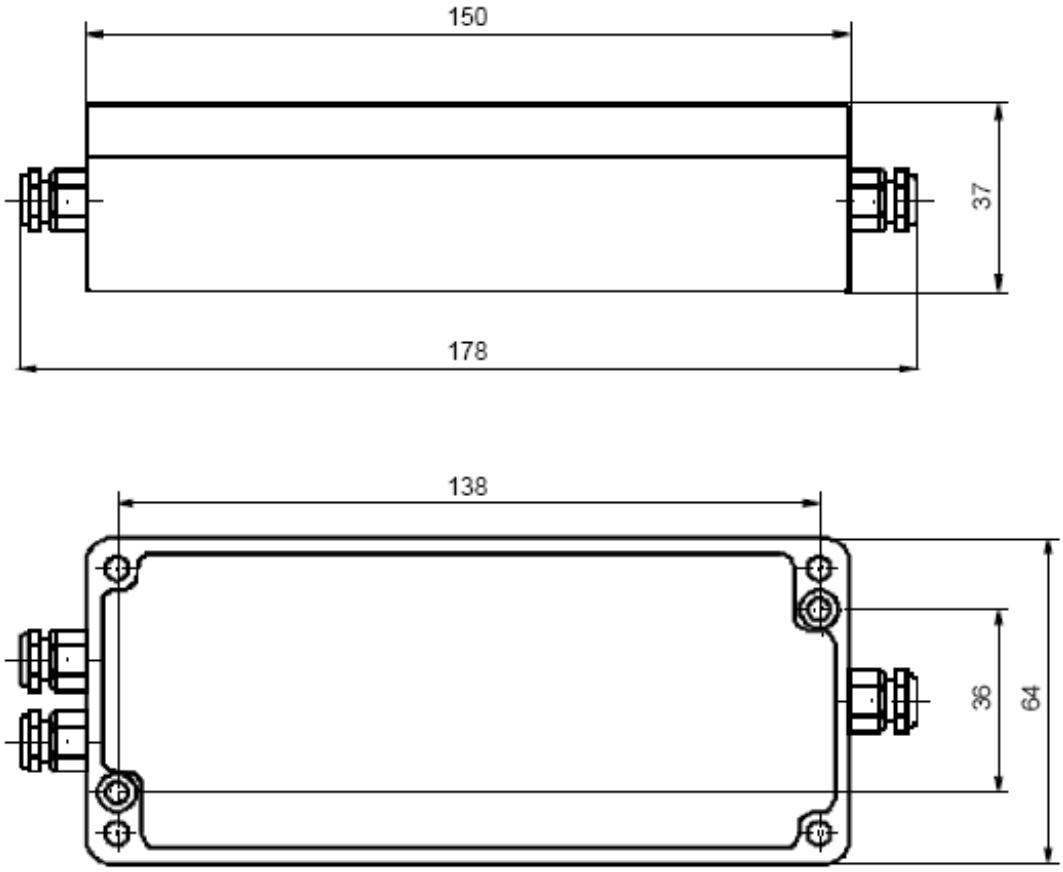
Dimensions



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Technical Data

Basis Data

Housing	Aluminium	
Connection	screw terminal	
Number of channels	1-Kanal	

Eingang analog

Number of analog inputs	1	
Input sensitivity-steps	2.0 | 3.5	mV7V
Input resistance strain-gauge-full-/half-bridge	87 ... 5000	Ohm
Input voltage to	10	V
Input resistance-voltage	56	kOhm

Precision

Accuracy class	0,05%	
Relative linearity error	0.02	%FS
Temperature effect on the zero point	0.2	%FS/10°C
Temperature effect on the measuring sensitivity	0.1	%RD/10°C
Resolution	24	Bit

Supply

Supply voltage f	10 ... 29	V
Current consumption f	100 ... 120	mA
Strain gauge bridge supply	5 | 2.5	V

Interface

Type of the interface	rs232 | rs422	
Quantity of the interface	2	

Zero adjustment

Type	software | Regulation | digital	
Tolerance	0.01	%
Time period	1	ms
Debouncing time	4	ms
Trigger level f	3.4 ... 29	V

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Trigger edge	Level	

Temperature

Rated temperature range f	-10 ... 65	°C
Operating temperature range f	-40 ... 85	°C
Environmental protection	IP66	

Measuring frequency

Data frequency to	1000	Hz
Limit frequency (analog)	1700	Hz