Measuring amplifier GSV-2ASD -5+5/250/2

Item number: 141

Highlights

- Tare function via control cable
- RS232, RS422
- analogue output ±5 V
- 24 Bit, to 200.000 Digits display resolution
- extensive software support
- two threshold generator
- trigger input

The GSV-2 is considered the "classic" among industrial measuring amplifiers for sensors with strain gauges. The highest EMC protection in accordance with severity level 4 (EN61000-4-2, 61000-4-4, EN50082-2) and standards that go beyond this,
IP66 housing and compactness are valued worldwide.
The GSV is optionally available with a display, connectors or zero-setting button and gain switching via relay contacts.
The GSV-2 measuring amplifier 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. Filtering or averaging of the transmitted measured values is not necessary.
An analog output (0...10 V, or ±5 V or 4...20 mA) 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.

For a low-cost measuring amplifier with 24-bit technology, the measuring rate and the excellent software support are particularly noteworthy.
The extensive ME GSV Control software package is included in the scope of delivery.
The measuring amplifier's setting in terms of measuring rate, switching thresholds or display is done either via control characters or via the ME GSV Control software.

A Windows DLL is available for software developers to integrate the functions.

Various functions, such as automatic zero point adjustment and noise suppression, are available.

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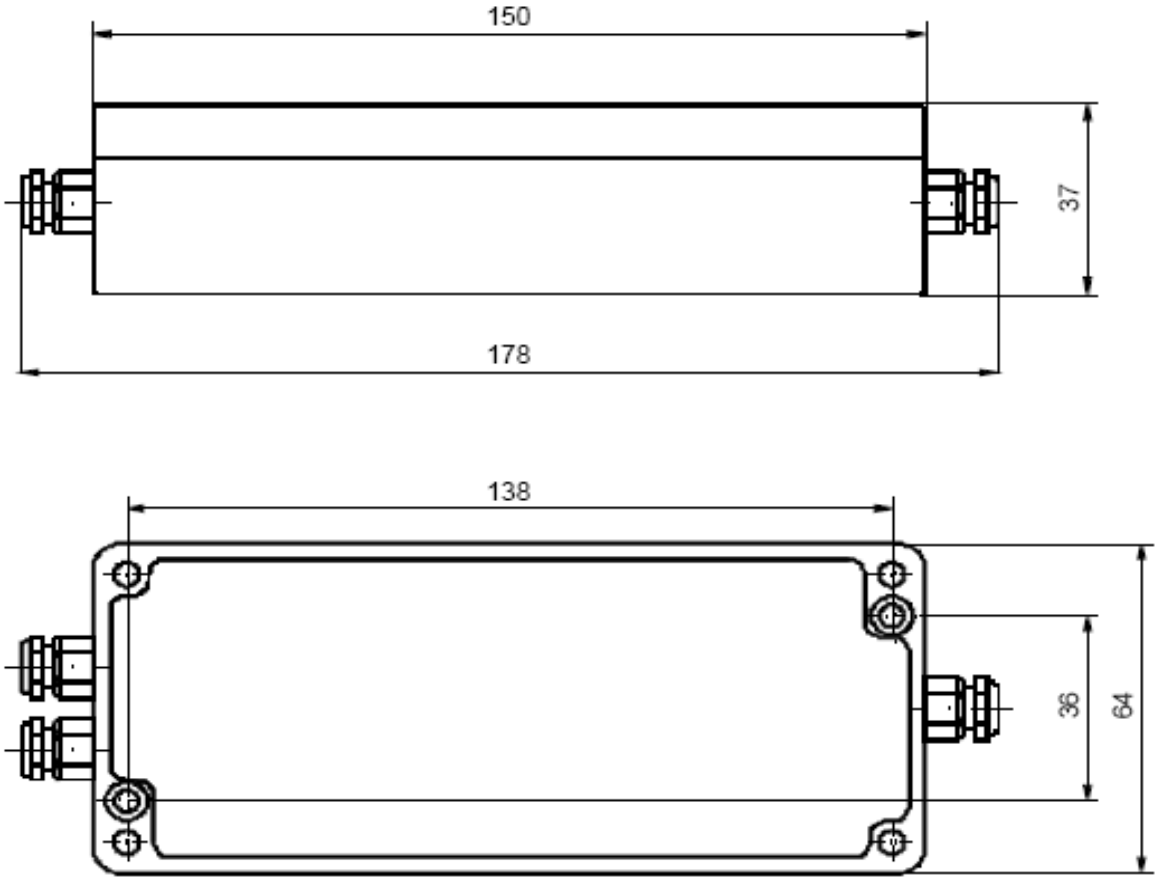
Stand: 18.02.2025

Technical Drawing



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Technical Data

Basic Data		Unit
Dimensions	178 x 64 x 37	mm³
Housing	Aluminium	
Connection	Plug connector	
Number of channels	1-channel	
Schnittstelle	RS232, RS422	

Input analog		Unit
Number of analog inputs	1	
Input sensitivity-steps	2.0 | 3.5	mV/V
Input voltage from	0	V
Input voltage to	10	V
Input resistance-voltage	56	kOhm

Output analog		Unit
Number of analog outputs	1	
Voltage output from	-5	V
Voltage output to	5	V
Output resistance - voltage output	47	Ohm

Accuracy data		Unit
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

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Measuring frequency		Unit
Data frequency from	0	Hz
Data frequency to	1000	Hz
Limit frequency (analog)	1700	Hz

Supply		Unit
Supply voltage from	10	V
Supply voltage to	29	V
Current consumption from	100	mA
Current consumption to	120	mA
Strain gauge bridge supply	2.5 | 5	V

Interface	Unit

Zero Adjustment		Unit
Type	Digital | Software | regulation	
Tolerance	0.01	%
Time period	1	ms
Debouncing time	4	ms
Trigger level from	3.4	V
Trigger level to	29	V
Trigger edge	Pegel	

Filter		Unit
Order	2	
Algorithm	Bessel	

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Environmental Data		Unit
Rated temperature range from	0	°C
Rated temperature range to	50	°C
Operating temperature range from	-20	°C
Operating temperature range to	70	°C
Environmental protection	IP66	

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