# GSV-2AS

Measuring amplifier


## 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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**Measuring amplifier**

## Description

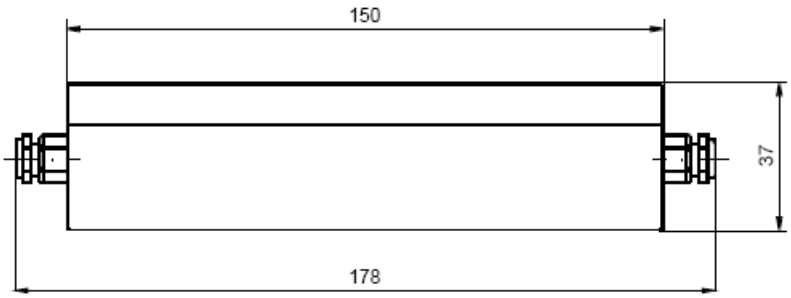
The GSV-2 is regarded as the "classic" among the industrial measurement amplifiers for sensors with strain gauges. Maximum EMC protection according to degree of sharpness 4
(EN61000-4-2, 61000-4-4, EN50082-2) and beyond. IP66 housing and compactness are appreciated worldwide.
Optionally, the GSV is equipped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

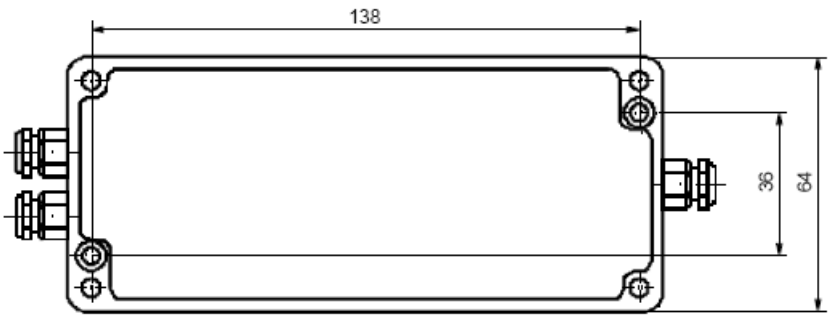
The measuring amplifier GSV-2 is used in process monitoring and weighing technology.
Up to 2000 measured values per second can be transmitted via the RS232 serial interface. It has excellent digital filters. No filtering or averaging of the transferred measured values is necessary.
An analog output (0 ... 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.

## Dimensions



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## Measuring amplifier

### Technical Data

| Input analog | | |
|---|---|---|
| Number of analog inputs | 1 | |
| Input sensitivity-steps | 2.0 \| 3.5 | mV7V |
| Input resistance strain-gauge-full-bridge | 87 ... 5000 | Ohm |
| Input voltage f | 0 ... 10 | V |
| Input resistance-voltage | 56 | kOhm |

| Output analog | | |
|---|---|---|
| Number of analog outputs | 1 | |
| Voltage output f | -5 ... 5 | V |
| Output resistance - voltage | 47 | Ohm |

| Measuring frequency | | |
|---|---|---|
| Data frequency f | 0 ... 1000 | Hz |
| Limit frequency (analog) | 1700 | Hz |

| 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 |
| Trigger edge | Level | |

| Filter | | |
|---|---|---|
| Order | 2 | |
| Algorithm | bessel | |

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

| Basis Data |
|---|



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| | | |
|---|---|---|
| Housing | Aluminium | |
| Connection | screw terminal | |
| Number of channels | 1-Kanal | |

| 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 |