

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



### Highlights

- Tare function via control cable
- RS232, RS422 or CAN/CANOpen
- analogue output  $\pm 5V$
- optionally 4...20mA output signal
- 24 Bit, to 200.000 Digits display resolution
- extensive software support
- two threshold generators
- trigger input

## Description

The GSV-2 is considered the "classic" among industrial measuring amplifiers for sensors with strain gauges. Highest EMC protection according to severity level 4

(EN61000-4-2, 61000-4-4, EN50082-2) and other standards, IP66 housing and compactness are valued worldwide.

The GSV is optionally available with a display, plug connectors or zero set button and gain switching via relay contacts.

The measuring amplifier GSV-2 is used in process monitoring and in 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 the transmitted measured values is not necessary.

An analog output (0 ... 10V, or  $\pm 5V$  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.

For a low-cost measuring amplifier in 24-bit technology, the measuring rate and the excellent software support are particularly noteworthy.

The extensive software package ME GSV Control is included in the scope of delivery.

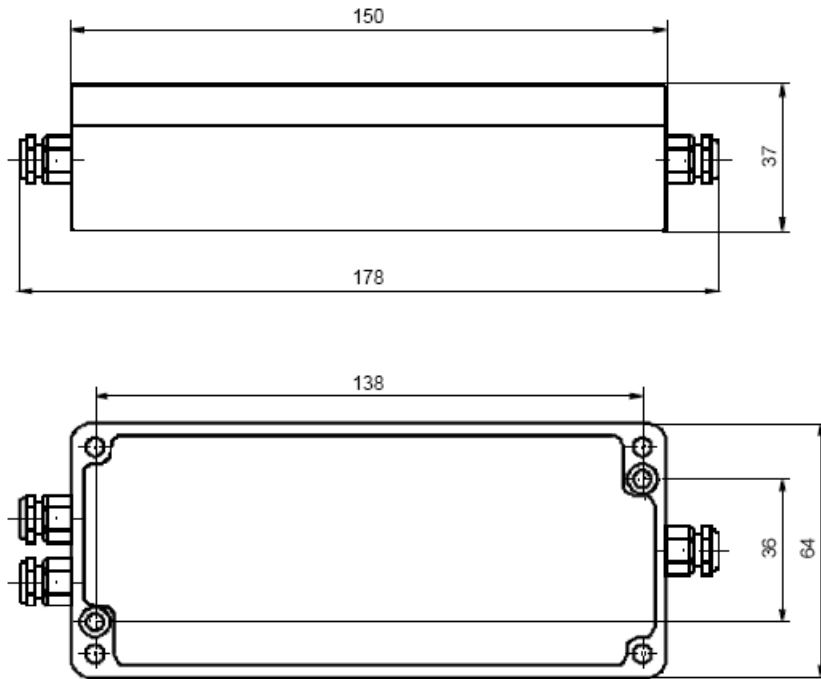
The setting of the measuring amplifier with regard to measuring rate, switching thresholds or display is done either via control characters or via the ME GSV Control software.

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.

The GSV-2 also has an analogue output. This analog output is characterized by fully analog signal processing. Therefore, the output signal is not scalable depending on the sensor signal. A zero setting function for the analog output is available. Only two variants can be set: 2mV/V at the input corresponds to 5V at the analog output, or 3.5 mV/V at the input corresponds to 5V at the analog output. Alternatively, devices with 10V analog output are also available (order option). The low-pass filter of the analog output adapts in 3 steps depending on the set data frequency: 2.5Hz, or 260Hz, or 1.7 kHz.

### Dimensions



## Technical Data

### Input analog

Number of analog inputs	1
Input sensitivity-steps	2.0   3.5 mV/V
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	canopen   rs232   can
Quantity of the interface	3

### Zero adjustment

Type	digital   Regulation   software
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



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