

GSV-2LS -5+5/250/2



Highlights

- Tare function via control cable
- RS232, RS485 or CAN/CANOpen
- analog 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 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. Optionally, there is the GSV with display, connectors or zero reset button and gain switching via 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 serial interface RS232. He has excellent digital filters. Filtering or averaging of the transmitted measured values is not necessary. In addition, an analog output (0 ... 10V, or $\pm 5V$ or 4 ... 20mA) is available. The digital output signal and the analogue output can be set to 0 via a digital control input. The adjustment range is 200% of the measuring range.

The measuring amplifier GSV-2 shows its advantages especially in connection with RS232, or RS485 or CANbus (CANopen). The analogue output can not be adjusted unlike the digital output. $+100\%$ of the measuring range are mapped to $+5V$.

The measuring range can be set to 3.5 mV / V or 2 mV / V by software, or 1 mV / V by a jumper.

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

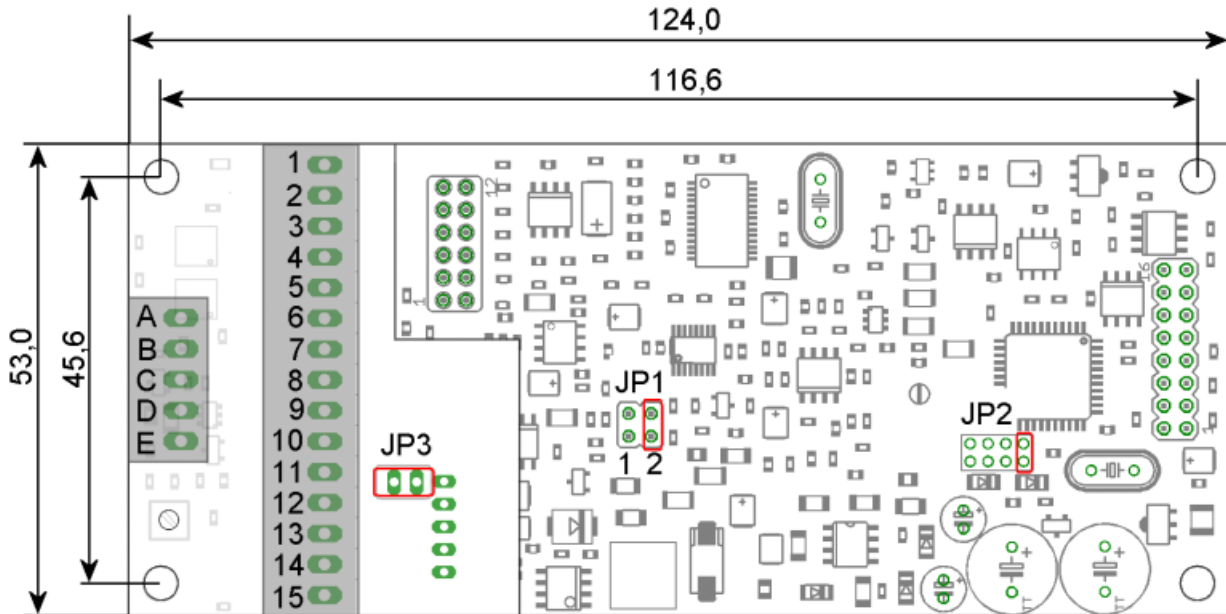
The comprehensive software package ME GSV Control is included in delivery.

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

For software developers, a Windows DLL is available to integrate the functions.

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

Dimensions



Technical Data

Basis Data

Housing	PCB
Connection	screw terminal
Number of channels	1-Kanal

Input analog

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

Precision

Accuracy class	0,1%
Relative linearity error	0.2 %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	2.5 5 V

Interface

Type of the interface	rs232 rs422
Quantity of the interface	2

Zero adjustment

Type	digital
Tolerance	0.01 %
Debouncing time	4 ms
Trigger level f	3.4 ... 29 V
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