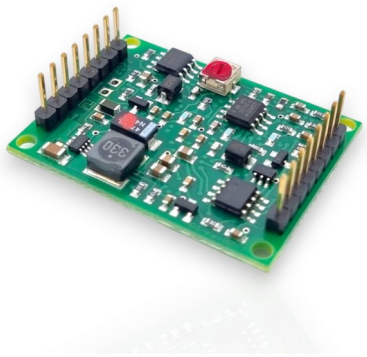
Measuring amplifier GSV-1L -5+5/250/2

Item number: 728



Highlights

- Tare function via control cable
- 250 Hz Filter in the standard version
- 2,5 kHz or 10kHz Filter optionally
- ±5 or ±10 V output

The PCB GSV-1L measures voltages ±5V or ±10V. Due to its small dimensions of only 30mm x 40.5mm x 6.5mm the amplifier can be easily integrated as an addon on larger PCB boards (Pin headers are integrated).

The high limiting frequency of 2.5kHz is suitable for the detection of static and dynamic signals from sensors with strain gauges.

The automatic automatic zero adjustment store settings permanently in the nonvolatile memory also by voltage interruption.

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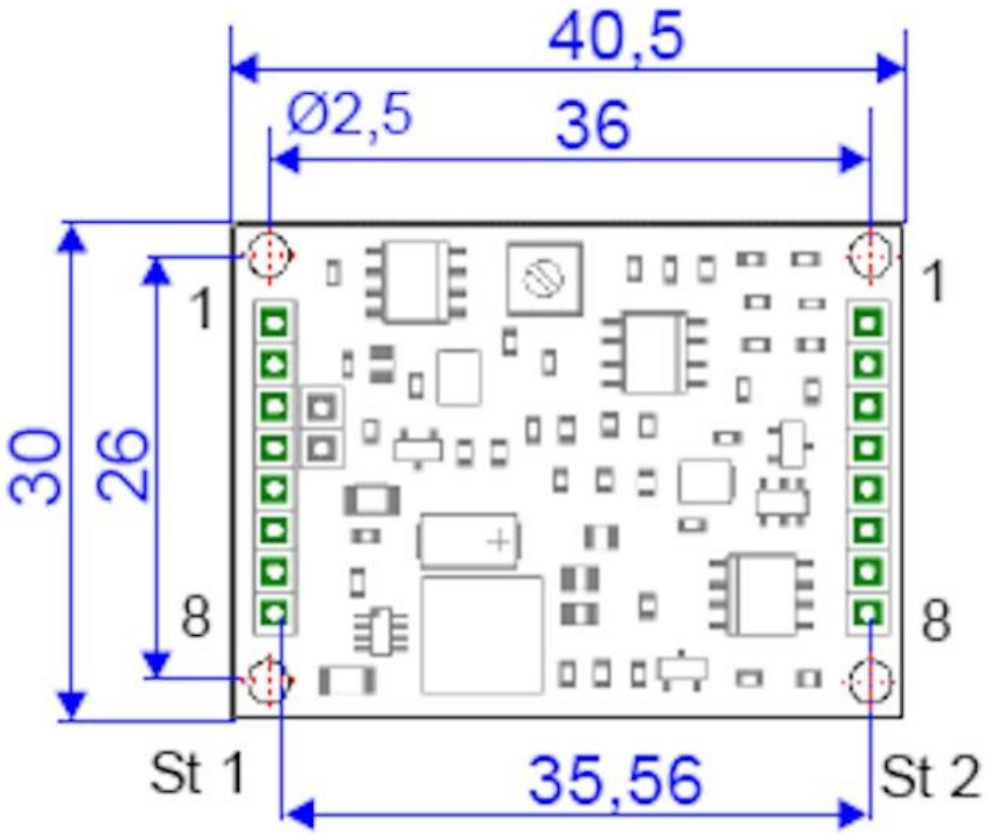
Stand: 17.09.2026

Technical Drawing



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Technical Data

Basic Data		Unit
Dimensions	30 x 40,5 x 6,5	mm³
Housing	Circuit board	
Connection	Soldering connection	
Number of channels	1-channel	
Interface	±5V, ±10V	
Functions	Tara	
bandbreite	250Hz, 2.5kHz	

Input analog		Unit
Input sensitivity-steps	2.0	mV/V

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	0,1%	
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

Measuring frequency		Unit
Limit frequency (analog)	250	Hz

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Supply		Unit
Supply voltage from	10	V
Supply voltage to	28	V
Strain gauge bridge supply	5	V

Interface		Unit
Type of the interface	Analog	

Zero Adjustment		Unit
Tolerance	5	mV
Time period	90	ms
Debouncing time	4	ms
Trigger level from	3.5	V
Trigger level to	30	V
Trigger edge	falling	

Environmental Data		Unit
Rated temperature range from	-10	°C
Rated temperature range to	65	°C
Operating temperature range from	-40	°C
Operating temperature range to	85	°C

Mounting

Pin configuration

St 1		St 2	
1	-UD : negative	1	+UB : voltage

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	differential input		supply
2	+UD : positive differential input	2	GND : mass
3	+US : positive bridge supply	3	assigned internally
4	-US : negative bridge supply (GND)	4	assigned internally
5	GND : mass	5	assigned internally
6	+UA : Analog output	6	assigned internally
7	+UB : voltage supply	7	assigned internally
8	T: control input zero balance	8	T: control input zero balance