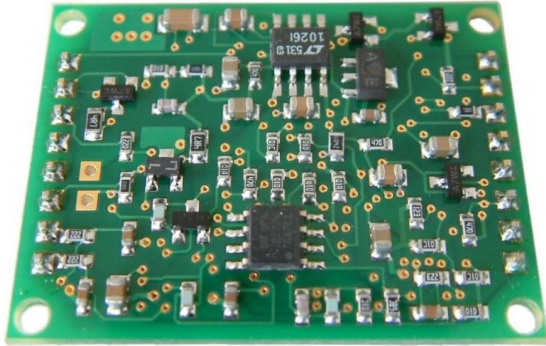


Measuring amplifier GSV-1L 010/250/2

Item number: 920



Highlights

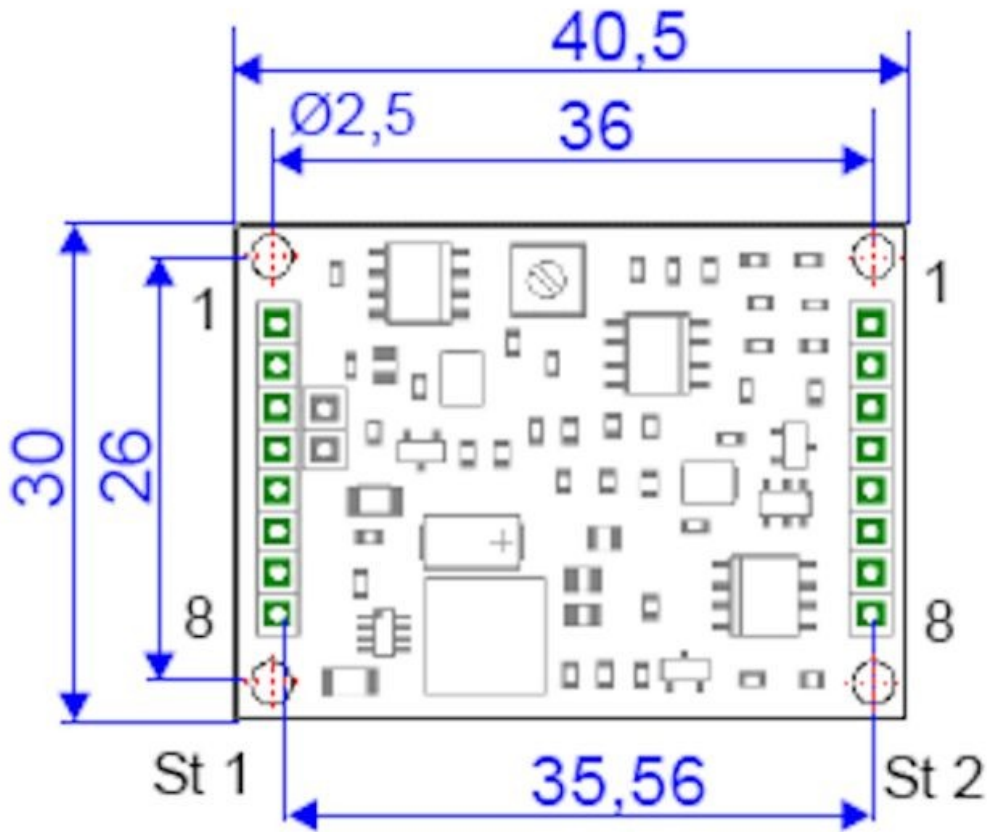
- Tare function via control cable
- 250 Hz Filter in the standard version
- 2,5 kHz or 10kHz Filter optionally
- ± 5 or ± 10 V output

The PCB GSV-1L measures voltages ± 5 V or ± 10 V. Due to its small dimensions of only 30mm x 40.5mm x 6.5mm the amplifier can be easily integrated as an add-on 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 zero adjustment store settings permanently in the nonvolatile memory also by voltage interruption.

Technical Drawing



Technical Data

Basic Data		Unit
Dimensions	30 mm x 40,5 mm x 6,5 mm	
Housing	Leiterplatte	
Connection	Soldering connection	
Number of channels	1-channel	

Input analog		Unit
Input sensitivity-steps	2.0	mV/V

Output analog		Unit
Number of analog outputs	1	
Voltage output from	-10	V
Voltage output to	10	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

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

Interface		Unit
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Type of the interface	Analog
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Zero Adjustment		Unit
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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
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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 differential input	1	+UB : voltage 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