Measuring amplifier GSV-1M 010/250/2

Item number: 1045



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 module GSV-1M is a encapsulated version of the printed circuit board GSV-1L with miniature M8 connectors.

The high limiting frequency of 10 kHz is suitable for the detection of static and dynamic signals from sensors with strain gauges.

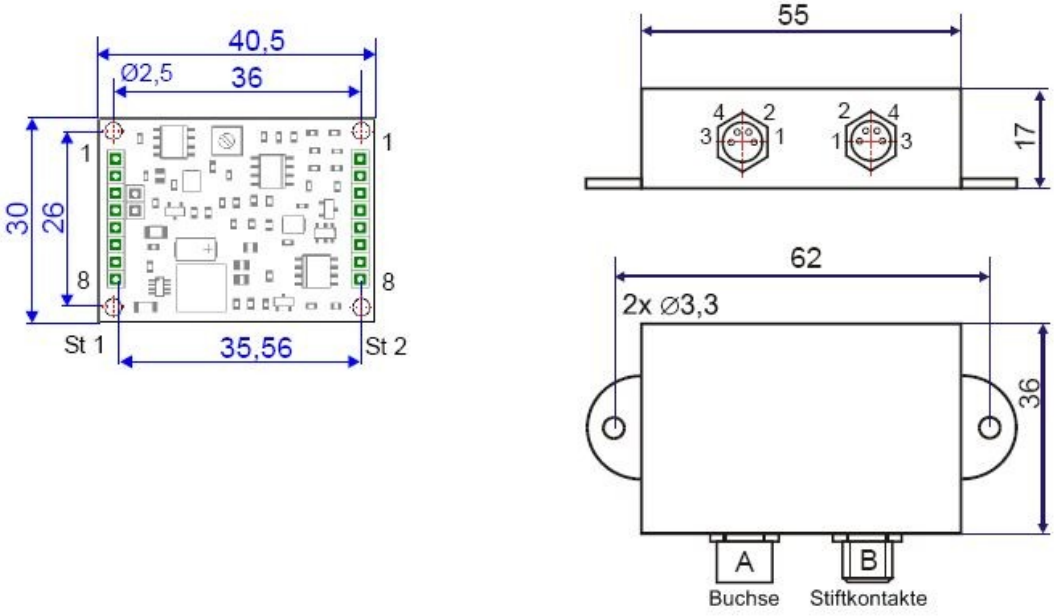
The automatic automatic zero adjustment store settings permanently in the nonvolatile memory also by voltage interruption.

ME-Meßsysteme GmbH
Eduard-Maurer-Str. 9
DE-16761 Hennigsdorf

Tel: +49 (0)3302 8982 4 10
Mail: vertrieb@me-systeme.de
Web: www.me-systeme.de

Stand: 21.03.2026

Technical Drawing



Technical Data

Basic Data		Unit
Dimensions	55 x 36 x 17	mm3
Housing	potting	
Connection	Plug connector	
Number of channels	1-channel	
Functions	Tara	

Input analog		Unit
Input sensitivity-steps	2.0 | 3.5 | 1.0	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

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Supply		Unit
Supply voltage from	11	V
Supply voltage to	26	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
Environmental protection	IP67	

Mounting

Pin configuration

	PIN Nr.		

A spring contacts	1	+US positive bridge supply	brown
	2	-US negative bridge supply	white
	3	+UD positive differential input	blue
	4	-UD negative differential input	black

	PIN-Nr.		
B pin contacts	1	+UB supply voltage	brown
	2	+UA Analog output	white
	3	GND: mass	blue
	4	T. control input zero balance	black

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

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