Measuring amplifier GSV-5H

Item number: 14831

Highlights

- Zero setting function via control line
- 250 Hz filter in the standard version
- 10 Hz, 2.5 kHz or 10 kHz filter configurable (solder bridges)
- continuous analog signal flow, suitable for vibration analysis
- Measuring range configurable in 4 levels via NFC/smartphone APP (4mV/V, 2mV/V, 1 mV/V, 0.5mV/V)
- Output signal ±10V
- 4- and 6-wire technology
- 2 threshold value transmitters, galvanically decoupled, configurable via NFC/smartphone APP
- Power supply for up to 8 full bridges of 350 ohms each
- Connection of half and full bridges as an option

The GSV-5H is a high-performance **strain gauge amplifier in a slim DIN rail housing** for industrial applications where precise measurements need to be reliably converted into a standard signal. The standard version offers a **±10 V analog output**, making it immediately compatible with many controllers and evaluation units. Thanks to its compact design and **20 plug-in/spring-clamp terminals**, the device can be installed quickly and securely in control cabinets.

A key advantage: The GSV-5H is designed so that important parameters can be **conveniently configured via the "GSV-5H" app**. This allows users to flexibly adapt the amplifier to different requirements – for example, switching the analog output to **4...20 mA**, selecting the **offset** to suit further processing, or precisely adjusting the **cutoff frequency** to the dynamics of the application. **Four input sensitivities** are also available, making the GSV-5H suitable for various strain gauge sensors. With **two threshold outputs** and a tare function via control line, it is also ideally suited for practical automation tasks.

Easy configuration with the new "GSV-5H" app

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Stand: 06.02.2026

We recommend using the **"GSV-5H" app** because it highlights the product's greatest advantage:

A single standard device (±10 V) covers many variants – without a variety of items, without modifications, and without the risk of ordering the wrong one.

This app is available free of charge in the Google Play Store and the Apple App Store.

Why this is important for customers:

Easier selection: Customers order the standard version and configure it later as needed.

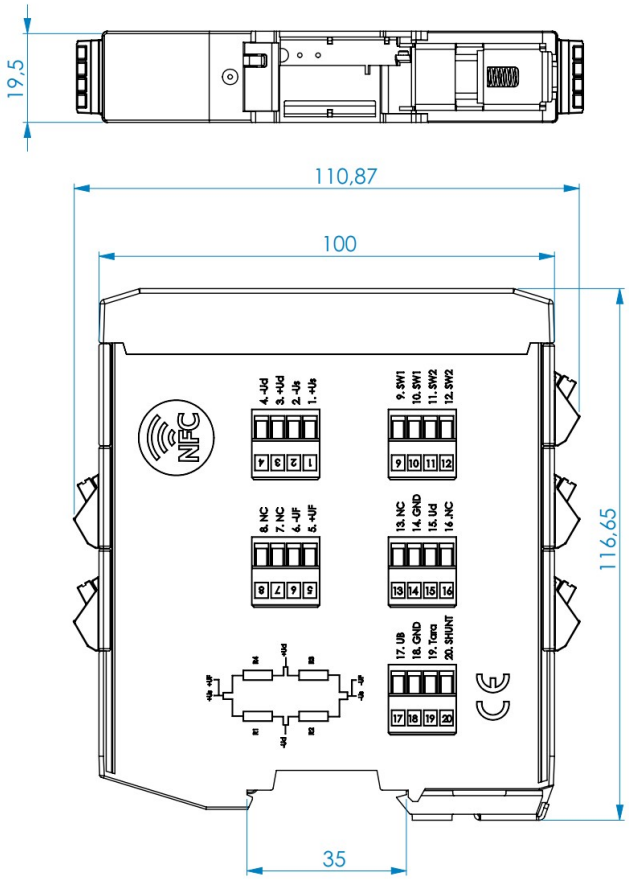
Faster commissioning: Settings can be adjusted directly on-site, without waiting for a different device variant.

Greater operational flexibility: If requirements change (e.g., a different input signal, a different evaluation system), the device remains usable.

Ideal for serial production machines and service calls: Same hardware, different configurations – saves on inventory and reduces downtime.

In short: The app makes the GSV-5H future-proof, easy to service, and particularly economical because changes can be made via configuration instead of hardware replacement.

Technical Drawing



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Technical Data

Basic Data		Unit
Dimensions	19.5 x 117 x 111	mm³
Housing	Din rail	
Connection	Spring clamp	
Number of channels	1-channel	
Schnittstelle	NFC	
Functions	Tara, Range, Offset, Frequency, Threshold	

Input analog		Unit
Number of analog inputs	1	
Input sensitivity-steps	0.5 | 1.0 | 2.0 | 4.0	mV/V
Strain-gauge-full-bridge resistance from	87.5	Ohm
Strain-gauge-full-bridge resistance to	5000	Ohm
Input resistance strain-gauge-half- /quarter-bridge	120 | 350 | 1000	

Output analog		Unit
Number of analog outputs	1	

Accuracy data		Unit

Measuring frequency		Unit
Data frequency from	10	Hz
Data frequency to	10	kHz

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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
Type	Digital | Button	
Tolerance	0.1	%FS
Time period	160	ms
Debouncing time	2	s
Trigger level from	3	V
Trigger level to	28	V
Trigger edge	falling	

Filter		Unit
Type	low-pass	
Quantity	4	
Limit frequency (analog) from	10	Hz
Limit frequency (analog) to	10	kHz
Order	2	
Algorithm	butterworth	

Environmental Data	Unit

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