

Measuring amplifier GSV-5H

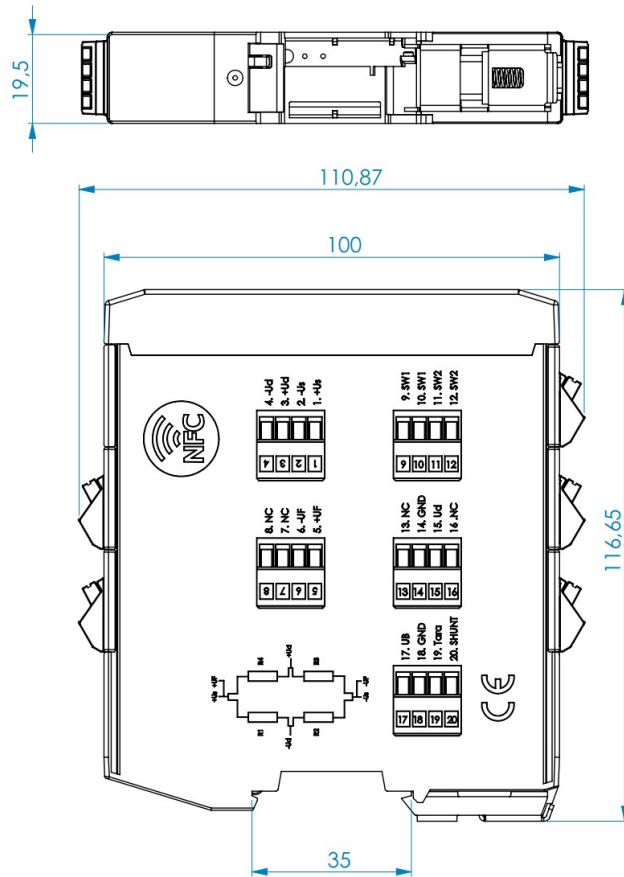
Item number: 14831



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 $\pm 10V$
- 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

Technical Drawing



Technical Data

Basic Data		Unit
Dimensions	19.5 x 117 x 111	mm ³
Housing	Din rail	
Connection	Federklemme	
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 2 4	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
Accuracy class	0,1	
Relative linearity error	0.02	%FS
Temperature effect on the zero point	0.05	%FS/10K
Temperature effect on the measuring sensitivity	0.05	%RD/10K
Resolution	150	nV/V Pk-Pk @10Hz

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

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

Interface		Unit
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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
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	IP20