Measuring amplifier GSV-8DS SubD15HD/HS

Item number: 11409



Highlights

- 4-channel amplifier
- 4x input configurable
- 4x 96kS / s simultaneous sampling
- Full, half, quarter bridge, 120- 350- 1000 ohm, PT1000, ± 10V, Thermocouple Type K, IEPE Sensors
- Outputs 1x USB port, 8x analog output ± 10V, 4 ... 20mA configurable, 1x UART/RS422
- optional EtherCat, CANbus / CANopen
- optional external extensions Ethernet, Wi-Fi, LTE
- 16x Digital Input Output
- 5x galvanic isolation: analog input, analog output, digital IO, UART, USB
- 6-wire technology, bridge supply 2.5V, 5.0V, 8.75V configurable
- Digital filters IIR and FIR configurable
- Resolution <20 nV / V

The 4-channel measuring amplifier GSV-8 is characterized by particularly high resolution at data rates from 1 Hz to 96000 Hz.
The 4 channels are recorded simultaneously, without multiplexing.

As communication interfaces USB port, optional EtherCAT or CANbus are available.

The device has 8 configurable analog outputs (± 10V et al and 4 ... 20mA).
An UART interface is used to control the measuring amplifier via a Raspberry PI.

There are 4 analog inputs. They are individually configurable as:

- strain gage input for full bridges in 4- and 6-wire technology
- strain gage input for half-bridges
- strain gage input for quarter-bridge 120 ohms, 350 ohms, 1kOhm
- Single-ended input ± 10V
- Input for PT1000 temperature sensor,
- Input for thermocouple type K.

Sensors with IEPE (ICP) interface can be connected via an adapter plug with BNC socket, e.g. IEPE acceleration sensors, IEPE force sensors, etc.

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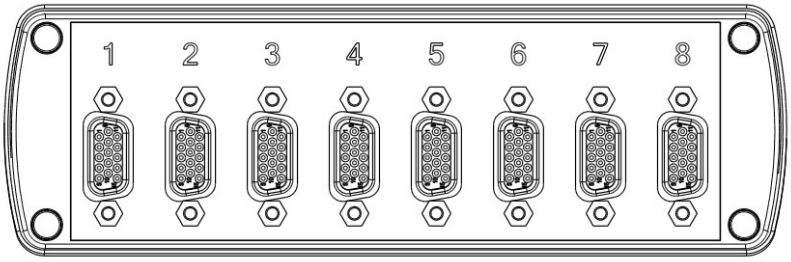
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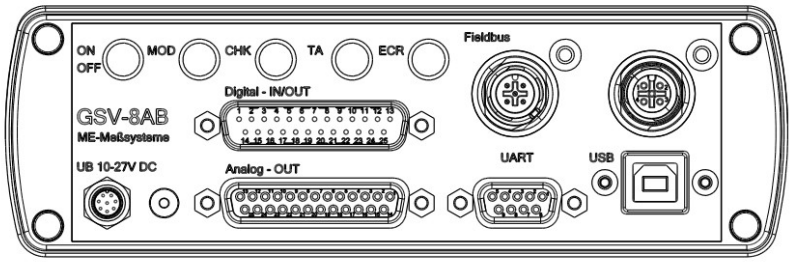
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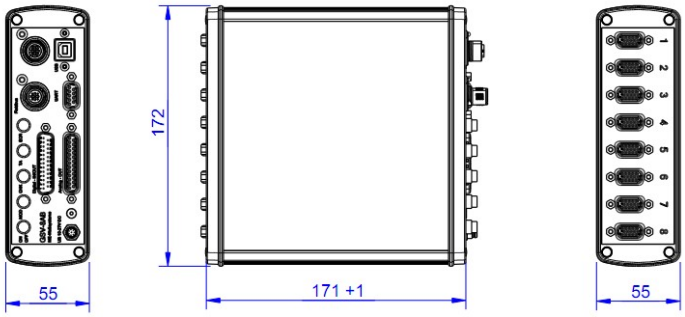
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Technical Drawing







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Technical Data

Basic Data		Unit
Dimensions	172 x 172 x 55	mm x mm x mm
Housing	Aluminium	
Connection	Plug connector	
Connection type	Sub-D15HD	
Number of channels	8-channel	
Interface	USB, UART 3.3V, Analog, Dig. IO, EC, CAN, LAN	
Functions	Tara, Gain, Threshold, DIO	

Input analog		Unit
Input sensitivity-steps	2.0 | 3.5 | 7	mV/V
Strain-gauge-full-bridge resistance from	88	Ohm
Strain-gauge-full-bridge resistance to	5000	Ohm
Input voltage from	-10	V
Input voltage to	10	V
Input resistance-voltage	10	MOhm
Temperature measuring range PT1000	-230...1500	°C
Temperature measuring range Type K	-260...445	°C

Output analog		Unit
Number of analog outputs	8	
Voltage output from	-10	V
Voltage output to	10	V
Output resistance - voltage output	50	Ohm
Current output from	4	mA
Current output to	20	mA
Maximum load resistance - current output	500	Ohm
Isolation of the analog output	2	kV

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Accuracy data		Unit
Accuracy class	0,05%	
Relative linearity error	0.02	%FS
Resolution	24	Bit

Measuring frequency		Unit
Data frequency from	0	Hz
Data frequency to	48000	Hz

Supply		Unit
Supply voltage from	9	V
Supply voltage to	28	V
Strain gauge bridge supply	5 | 2.5 | 8.75	V

Interface		Unit
Type of the interface	USB | UART | TEDS	
Quantity of the interface	2	
Version of the interface	USB 2.0 Fullspeed	

Zero Adjustment	Unit

Environmental Data		Unit
Rated temperature range from	0	°C
Rated temperature range to	50	°C
Operating temperature range from	-20	°C
Operating temperature range to	70	°C
Environmental protection	IP64	

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