

GSV-8AS



Highlights

- 8-channel amplifier
- 8x input configurable
- Full, half, quarter bridge, 120- 350- 1000 ohm, PT1000, $\pm 10V$
- Outputs 1x USB port, 8x analog output $\pm 10V$, 4 ... 20mA configurable, 1x UART
- optional EtherCat, CANbus / CANopen
- 16x Digital Input / Output
- 5x galvanic isolation: analog input, analog output, digital IO, UART, USB
- 8x 48kS / s simultaneous sampling
- 6-wire technology, bridge supply 2.5V, 5.0V, 8.75V configurable
- Digital filters IIR and FIR configurable
- Resolution < 20 nV / V
- Protection IP67;

Description

The 8-channel measuring amplifier GSV-8 is characterized by particularly high resolution at data rates from 1 Hz to 48000 Hz. The 8 channels are recorded simultaneously, without multiplexing.

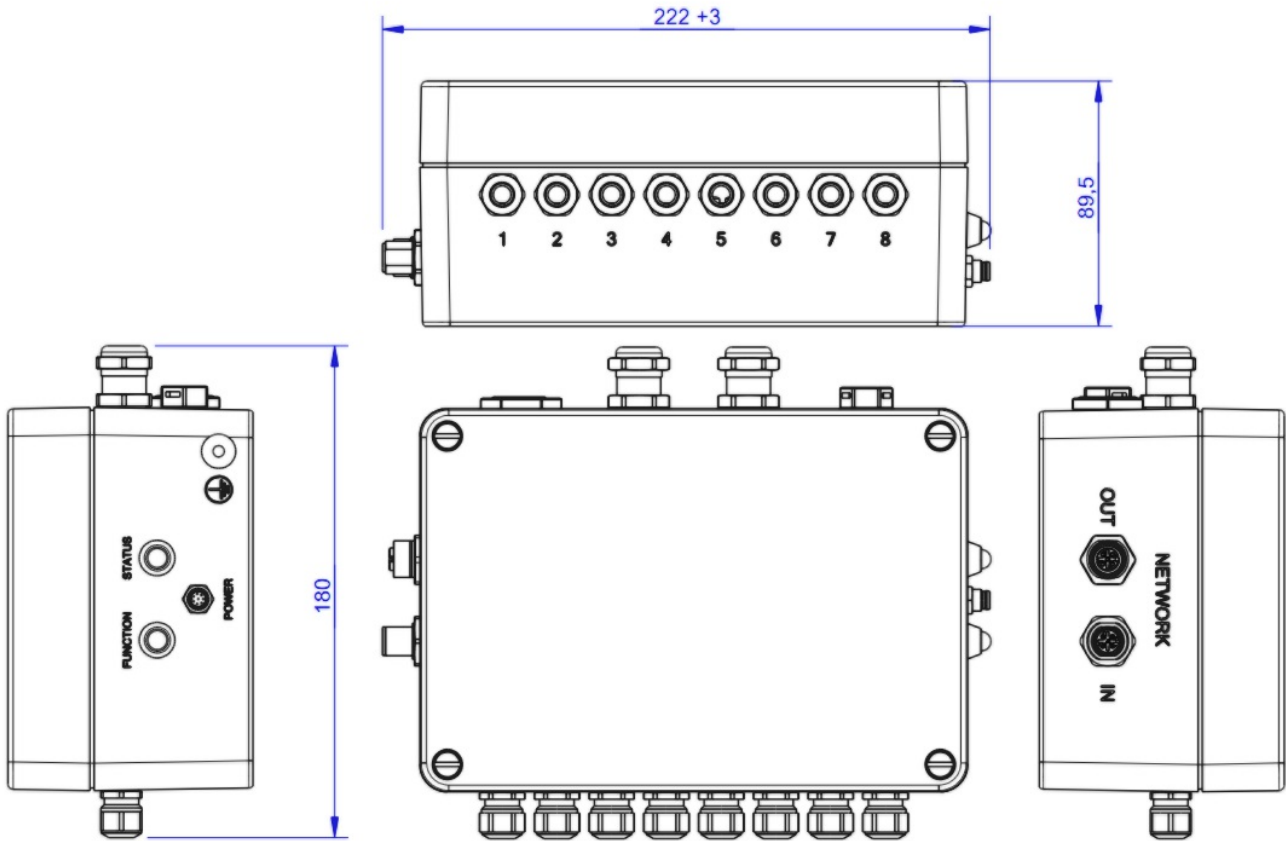
As communication interfaces USB port, optional EtherCAT or CANbus are available.

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

There are 8 analog inputs. They are individually configurable as:

- DMS input for full bridges in 4- and 6-wire technology
- DMS input for half-bridges
- DMS input for quarter-bridge 120 ohms, 350 ohms, 1kOhm
- Single-ended input $\pm 10V$
- Input for PT1000 temperature sensor.

Dimensions



Technical Data

Input analog

Number of analog inputs	8
Input sensitivity-steps	2.0 3.5 7 mV/V
Input resistance strain-gauge-full-/half-bridge	60 ... 5 Ohm
Input voltage f	-10 ... 10 V
Input resistance-voltage	10 MOhm
Temperature input-type	PT1000
Temperature-measuring range from	-230 °C

Output analog

Number of analog outputs	8
Voltage output f	-10 ... 10 V
Output resistance - voltage	50 Ohm
Current output f	4 ... 20 mA
Output resistance - current	350 Ohm
Isolation of the analog output	2 kV

Measuring frequency

Data frequency f	0 ... 48000 Hz
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Supply

Supply voltage f	12 ... 28 V
Strain gauge bridge supply	2.5 5 8.75 V

Interface

Type of the interface	usb ethercat
Quantity of the interface	2
Version of the interface	USB 2.0 Fullspeed

Temperature

Rated temperature range f	0 ... 50 °C
Operating temperature range f	-20 ... 70 °C
Environmental protection	IP67

Basis Data





Dimensions	180 x 222 x 90 mm
Housing	Aluminium
Connection	screw terminal
Number of channels	8-Kanal

Precision

Accuracy class	0,05%
Relative linearity error	0.02 %FS



accessories

Description	Description
 PI-3 8AS	Raspberry PI-3 in the housing cover as an optional accessory for GSV-8AS;
 Mounting-FEET-300	Mounting plates for GSV-4GPRS and GSV-4GPRSx2, GSV-8AS, also KL4 and GSV-15KL4;
 WLAN-Interface	WLAN interface for GSV-8DS and GSV-8AS
 GSM-Interface	GSM interface for GSV-8DS and GSV-8AS



Orderoptions

Type	Description
GSV-8AS	
GSV-8AS CAN	1x CANbus/CANopen interface
GSV-8AS EC	EtherCat interface