

## 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.

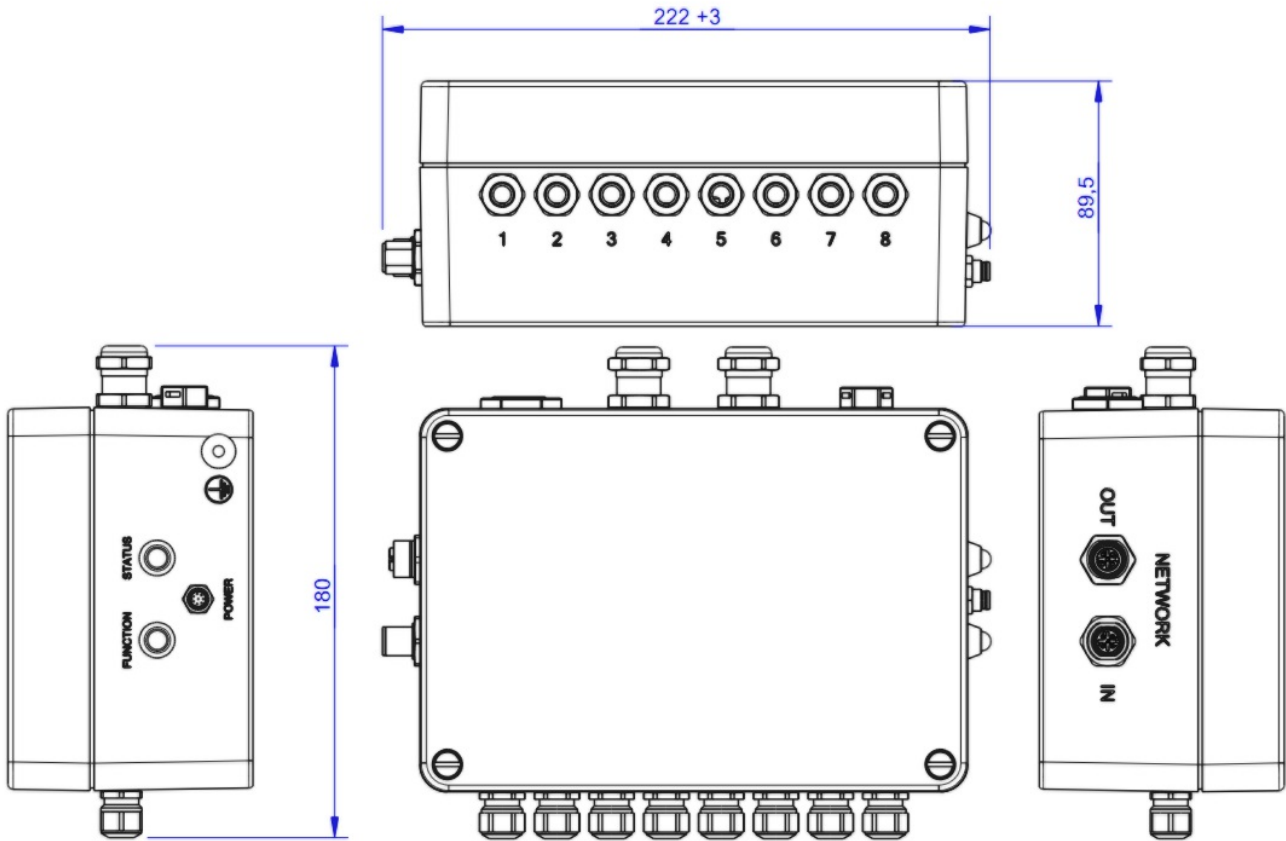
As communication interfaces USB port, optional EtherCAT or CANbus are available.

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

### Basis Data

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

### 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

### Precision

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

### 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 to	50	°C
Operating temperature range f	-20 ... 70	°C
Environmental protection	IP67	

### Measuring frequency

Data frequency to	48000	Hz
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## 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