

GSV-4BT SD



Highlights

- Bluetooth interface
- 4 channels
- Inputs for DMS / 0 - 5 V / PT1000
- Measuring ranges 2 mV / V / 10 mV / V
- DMS quarter- / half-full bridges
- 4 digital inputs / outputs
- Data rate 0 Hz - 900 Hz
- Range up to 100m

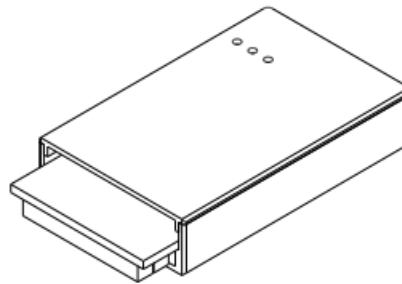
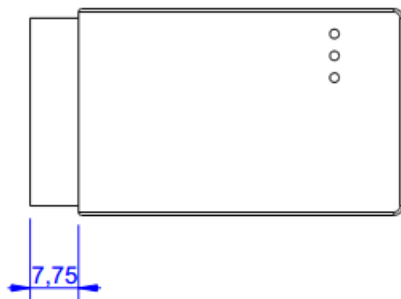
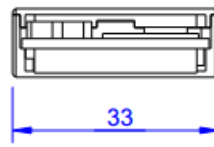
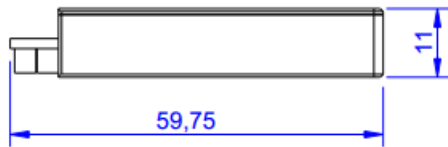


Description

The measuring amplifier GSV-4BT is equipped with 4 independent channels for sensors with strain gauges, such as Force sensors, torque sensors, acceleration sensors or strain sensors.

Data rates from 0.6 Hz to 500 Hz are possible < br> The power consumption is less than 150mA. At rest, the power consumption is less than 10mA. The supply is, for example, a lithium-polymer battery.

Dimensions



Technical Data

Basis Data

Housing	Grouting
Connection	Solder connection
Number of channels	4-Kanal

Input analog

Input sensitivity-steps	2.0 10	mV/V
Input resistance strain-gauge-full-/half-bridge	89 ... 5000	Ohm
Input resistance strain-gauge-quarter-bridge	120 350 1000	Ohm
Input voltage to	10	V
Input resistance-voltage	10	kOhm

Precision

Accuracy class	0,05%
Relative linearity error	0.02 %FS
Temperature effect on the zero point	0.05 %FS/10°C
Temperature effect on the measuring sensitivity	0.01 %RD/10°C
Resolution	16 Bit

Supply

Supply voltage f	3.3 ... 4.2	v
Current consumption from	100	mA
Strain gauge bridge supply	2.5	V

Interface

Type of the interface	bluetooth
Quantity of the interface	1
Version of the interface	Bluetooth 2.0+EDR

Zero adjustment

Type	digital software	
Tolerance	0.01 %	
Time period	1 ms	
Debouncing time	4 ms	
Trigger level f	3.4 ... 4.2	V
Trigger edge	Level	

Temperature






Rated temperature range f	-10 ... 65	°C
Operating temperature range f	-40 ... 85	°C
Environmental protection	IP64	

Measuring frequency



Data frequency to Sampling frequency	500 Hz 1.92 MHz
Limit frequency (analog)	450 Hz

accessories

	Description	Description
	Bluetooth-USB-Adapter	Bluetooth 4.0 adapter, USB 2.0 Micro
	Li-Ion 1S/1P/2600mAh	Capacity: 2600 mAh, Voltage: 3,7 V, Minimum discharge Voltage: 2,75V, Charge current (max): 0,28A (1C), Charge voltage (max.): 4,2V (4,2V +- 0,03V), Weight 47,0 g, Dimensions: 65mm x 18,40mm;
	Charger Ultramat 14 plus	Charging sockets 4mm, Power supply 230VAC or 12V DC, 1-14 NiMh cells, 1-5 Li-ion cells, 1-5 Li-Po cells, 1-6 Pb cells, charging current 0.1A-5A, Trickle Charge, Dimensions : 148mm x 146mm x 54mm
	Adapter-GSV-4BT	Adapter-BCM with soldering lands to contact sensors
	Ladekabel 0,50 m rot/schwarz mit Steckern	Recharger cable 0,5m, 4mm plug to connect with akku charger, Molex plug to connect the accumulator 2,6Ah or 500mAh;



Orderoptions

Type	Description
GSV-4BT	
Li-Ion 1S/1P/2.6Ah	
Adapter-GSV-4BT	
Adapter-GSV-4BT MSTB	
Bluetooth-USB-Adapter	
GSV-4BT M12	
GSV-4BT LD	
Bluetooth USB-Dongle UD100	