

Measuring amplifier GSV-4BT M12

Item number: 4481



Highlights

- IP67 housing with integrated battery
- Long Distance 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

The measuring amplifier GSV-4BT M12 is an amplifier with 4 independent channels for sensors with strain gauges, such as Force sensors, torque sensors, accelerometers or strain sensors.

Data rates from 0.6 Hz of up to 900 Hz are possible.

The power consumption is less than 150 mA. At rest, the power consumption is less than 10 mA.

It is powered via e.g. a lithium polymer battery.

The housing has IP67 protection. The sensors are connected via M12 circular connectors.

Technical Data

Basic Data		Unit
Dimensions	120 x 80 x 55	mm
Housing	Verguss	
Connection	Plug connector	
Number of channels	4-channel	

Input analog		Unit
Number of analog inputs	4	
Input sensitivity-steps	2.0 10	mV/V
Input resistance strain-gauge-half- /quarter-bridge	120 350 1000	Ohm
Input voltage from	0	V
Input voltage to	10	V
Input resistance-voltage	10	kOhm

Output analog		Unit
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Accuracy data		Unit
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

Measuring frequency		Unit
Data frequency from	0	Hz
Data frequency to	500	Hz
Sampling frequency	1.92	MHz
Limit frequency (analog)	450	Hz

Supply		Unit
Supply voltage from	3.3	V
Supply voltage to	4.2	V
Current consumption from	100	mA
Strain gauge bridge supply	2.5	V

Interface		Unit
Type of the interface	Bluetooth	
Quantity of the interface	1	
Version of the interface	Standard 2.0+EDR	

Zero Adjustment		Unit
Type	Digital Software	
Tolerance	0.01	%
Time period	1	ms
Debouncing time	4	ms
Trigger level from	3.4	V
Trigger level to	4.2	V
Trigger edge	Pegel	

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	IP65	