

g-log s1

Data logger for shock



Shock measurement on all 3 axes Detailed shock curve with time stamp Integrated temperature sensor Battery life > 12 months Tamper-proof - password protected Stabile aluminum housing - easy mounting Extremely simple evaluation with software provided



solve g-log s1 data loggers

The g-log s1 series meets all requirements: large memory capacity, alarm messages, long battery life, simple operation and evaluation.

Features

The g-log s1 is the basic model of the g-log series. With the g-log s1 accelerations (impacts, jolts) can be recorded over long periods. The progress over time of the accelerations is recorded on all three axes for all events. This makes the g-log s1 the ideal tool for detailed transport monitoring and packing checks.

The related LogView PC software for programming, graphic and numerical display of the measured values and print-outs enables easy measurement series analysis and datalogger programming.

Security

All data are stored in the logger in a non-volatile memory. This means the measured values are retained even in the case of a battery failure.

Any access to the programming of the unit requires a password, and all changes are logged. This ensures that measurements cannot be tampered with and any tampering attempts are detected immediately.

Housing

The g-log series was developed for use under difficult conditions. The measuring electronics are protected with a sturdy, splash-water resistant aluminum housing.

Mounting





Technical Data

General Information	3-axis curve recorder for acceleration
Housing	Aluminum anodized, splash-water protected IP 65
Dimensions	145x80x29 mm
Weight	approx. 470g
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Battery	2x UM3 lithium thyonilchloride 3.6 V
Current consumption in	approx. 50µA
Standby mode	
Current consumption	50mA max.
during measurement	
Battery life	> 10'000 hr
Memory	Non-volatile, SRAM with buffer battery
Memory capacity	1 Mbyte, approx. 3.000 shock events (2 or 3 Mbyte optional)
Memory mode	When memory is full, smallest values are overwritten
Internal sensors	Shock (acceleration) temperature
External sensors	none
Digital IO	none
Programming/evaluation	with LogView PC software
Measurement start/end	Programmable or with start/stop buttop
Connection to PC	RS-232 57600 kBaud
Operating range	-30°C to 85°C
operating range	

Acceleration sensor	
Unit of measure	g
Measuring sensor	Internal micro-mechanical sensor, static acceleration measurement
Measuring range	-50 g to 50 g (other measuring ranges on request)
Measuring interval	Continuously ready for measurement, adjustable trigger threshold
Wake-up time	Typ. 1 ms, max. 2 ms (from reaching of trigger threshold to
	recording)
Trigger threshold	1g to 20g, adjustable
Accuracy	0.2g
Measuring axes	Triaxial (X, Y, Z)
Event length	automatic
Sampling rate	1 kHz (scan rate = 1ms)
Frequency range	Adjustable (programmable filter)

Temperature sensor	
Unit of measure	Degrees Centigrade
Measuring sensor	Internal temperature sensor
Measuring range	-40°C to 85°C
Measuring interval	Temperature measurement during shock event
Accuracy	2°C
Sensor positioning	Internal



EMC Compliance

The device is conform to all requirements of the following standards:

- EN 50081-1:1992 + 50082-1:1997

- EN 50081-2:1993 + 50082-2:1995 + EN 61000-6-2

Calibration and certification

All units of the g-log series are shipped with a calibration record.

The manufacturer recommends an annual inspection of the unit, whereby an electrical test is conducted and the sensors recalibrated.

Ordering Information	
Designation	Order No.
Data logger g-log s1-25, 1MByte g-log s1-50, 1MByte <i>Additional acceleration ranges or memory versions on request</i>	1121 1151
Software LogView software	1010
Accessories PC data cable	1020
Services Basic check, battery replacement Calibration of shock sensors	9901 9902

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