

Transport monitoring of shocks and temperature

Wireless. Accurate. Long lasting.



ASPION G-Log shock data logger technical data











ASPION G-Log shock data logger

General product description

With the ASPION G-Log shock data logger, you can record shocks, vibrations and temperature data. It offers a 3-axis accelerometer and an integrated temperature sensor. The data logger only saves measured values above or below a defined threshold. You can reuse the data logger repeatedly and for different transports.

Using the ASPION PC software, you can define thresholds and apply them to the ASPION G-Log shock data logger. When reading out data from the data logger, the software displays the measured values. Data is transferred wirelessly to and from the data logger with Near Field Communication (NFC) and with a card reader which is connected to the PC via USB interface.

To easily read out or stop a data logger you can use the ASPION App for smartphones. For this purpose, data is transferred via NFC. Recorded events are displayed or hidden with PIN protection. Data can be sent from the app to the PC software via e-mail or automatically transferred via cloud-transfer (ASPION Premium service). The ASPION PC software then quickly analyses and further processes your data.

Each data logger has a unique ID which is indicated on the housing and in the QR code.

The shock data logger is available in two versions:

ASPION G-Log: housing with protection type IP 50; battery can be replaced by the

manufacturer

ASPION G-Log Waterproof: waterproof version with encapsulation for outdoor use – housing with

protection type IP 65/67; battery not replaceable



ASPION G-Log shock data logger for mounting on goods to be transported



USB card reader for activation and reading out data

ASPION PC software on USB stick or for download in the customer portal



ASPION PC software for Windows for activation, control and analysis of evaluations



smartphone app for readout via NFC for Android from version 5.0 and iOS from version 11

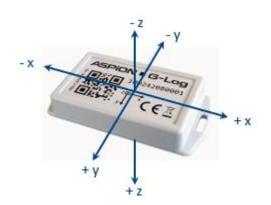


Technical data ASPION G-Log

	Description	Details
Accelements	Description	
Accelerometer	3 axes: x, y and z up to ±24 g per axis Measuring frequency	 up to ±16 g calibrated, 2.5% accuracy, extendable up to ±24 g with approx. 3.5% accuracy, verified by accredited testing lab 0.2 g resolution Adjustable threshold from 0,2 g to 12 g, special tool available for values < 2 g Adjustable between 25 Hz and 1,600 Hz
Temperature sensor	Internal	 -30°C +60°C with accuracy of ± 2°C 1°C resolution Lower and upper threshold freely selectable
Memory/logging	Non-volatile memory Event triggered	 Capacity: 286 events in circular buffer Additionally, shock details for the first and 8 highest peak events in permanent memory
Data transfer and analysis	Wirelessly via NFC with PC software and App	Data is transferred via NFCConfiguration and analysis with PC software and NFC-enabled reader
Near Field Communication (NFC)	NFC tag (type 4)	ISO/IEC 14443B compatible13.56 MHz RF interface
Battery	CR2032 3V Lithium 225 mAh replaceable by manufacturer (does not apply to Waterproof version)	 Battery life depends on data rate; up to 1.5 years; e.g. 1 year for 100 Hz; battery life may be shorter at lower temperatures Battery power level at delivery: full Battery consumption when inactive: 5% per year for indicated storage conditions Data can be read out when battery is empty For transport including air freight no labeling obligation of the lithium metal button cell; IATA DGR compliant
Operating conditions	Operating temperature Storage conditions	-30°C +60°C5°C +40°C, max. 85% humidity
Housing and mounting	ABS housing; Screw mounting M3 ISO 7380 FL; optional: industrial adhesive tape, magnets, cable ties	 Dimensions: 88 mm x 45 mm x 16 mm Distance of mounting holes: 80 mm Maximum tightening torque: 0.4 - 0.5 Nm
Product variants	Standard, IP 50 protection Waterproof, IP 65/67 prot.	 Weight: approx. 35 g Penetration of fluids is to be prevented (corrosion damage/short circuit) Weight: approx. 50 g, dustproof/waterproof
Approvals/Standards	Declarations of conformity and directives	 CE / ROHS / REACH / WEEE RED (EU) Not necessary: FCC / IC / SRRC DO160 (IATA) → for details see customer portal and manual
Export information	Product tariff code Country of origin Data regarding legal control	9031 8080DE (EU)Al = no, ECCN = no



Mounting orientation



To correctly assign the axes in case of shock events, the mounting orientation is critical.

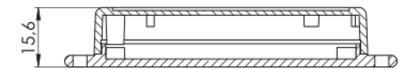
Recommended mounting

- on steel: M3 ISO 7380 FL
- on wood/sheet metal: flathead screws with a maximum thread diameter of 3.5 mm (e.g., DIN 7981)
- Maximum tightening torque 0.4 0.5 Nm

Alternatively fasten with industrial adhesive tape (e.g., 3M), magnets or cable ties.

Housing dimensions and mounting template

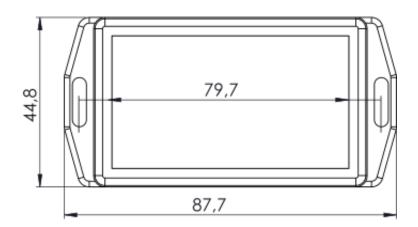
Housing cross section



Measures in millimeters

Housing dimensions

Mounting template 1:1



Measures in millimeters

As of October 2022. Changes and/or errors excepted.