LAMERHOLM
DAMAGE DETERRENT SPECIALISTS

ShockBug

The Lamerholm ShockBug is designed to record shock events experienced during the transportation, storage and usage of products and equipment. The unit has been designed as an event recorder, providing an accurate record of the date and time at which user defined g force limits are exceeded. These thresholds offer the added advantage, on the Plus model, of being programmable individually for each axis allowing more sensitive axis to be monitored with a lower g level.

The ShockBug attaches directly to the product or the packing case, where this is an integral part of the product being protected and will record events above the user defined thresholds, along with the date and time. The information provided by the ShockBug allows owners of the goods to identify the exact time and date of when potentially damaging mishandling events occurred. The LED indicator on the unit will indicate if an alarm threshold has been breached on any axis.

Communication with the ShockBug is via a simple iButton® interface. To start the units recording, users send a set-up program via the iButton® interface; this action will also clear the memory and reset the alarms. The collected information is then downloaded by a separate iButton® for storing within the Windows based PC software. The ShockBug PC software allows users to create journey set-up files, program the iButton® and to view the recorded data in a simple and clear tabulated format, showing date, time, axis exceeded and axis threshold. The downloadable report will give a table of events (up to 100 per channel), showing the date, time and g value for each axis.

Benefits

The most cost-effective event recorder on the market
Reduces product damage and loss incurred during transportation or storage
Provides indisputable evidence of mishandling
Acts as a visual deterrent to improper handling
Alerts recipients to inspect contents before acceptance
Ensures chain of accountability for all product handling
Identifies trouble spots in supply chain, from production to transportation and storage

Typical Applications

Commercial appliances
Semiconductor devices
Computer hard drives
Lab equipment
Storage media
Glass products
Electronics
Furniture

Product Code

SB10G25HZ01 – ShockBug 10g 25Hz
SB10G25HZ02 – ShockBug Plus 10g 25Hz (enhanced recording)
SB25G40HZ01 – ShockBug 25g 40Hz
SB25G40HZ02 – ShockBug Plus 25g 40Hz (enhanced recording)
Series ShockBug

Instrument

Dimensions: 70 x 50 x 30 mm
Weight: 81 grams (including battery)
Power Supply: 1 x AA Alkaline battery
Case Material: PC/ABS
Sealing: IP65
Battery life: Up to 6 months*
Operating Temperature Range: -10ºC to +50ºC
Shock Ranges: 10g or 25g factory set
Alarm Trip Threshold: User selectable 20 to 90% of range, per axis.
Accelerometers: Piezo
Shock Accuracy: +/- 6% of full scale
Resolution: 0.1g
Memory: First 100 events per channel, 300 events overall
Communications: iButton®
Alarm threshold breach indication: LED

* Based on 2.4Ah alkaline battery (E.g. Procell MN1500) with a journey profile that creates an event on average every 20 mins, in ambient conditions of 0 to 35Deg C. For environments outside this temperature range we advise using a Lithium 1.5v cell. E.g. Ansmann Lithium extreme 1.5v

Features

Completely self-contained (battery operated)
Acceleration measurements
Three built in accelerometers
Adjustable alarm thresholds
Low cost standard AA size alkaline battery
iButton communication interface
LED operation and alarm status indicators
Date and time stamping
RF screened and CE certified
Up to 6 months battery life*
Events (up to 300)
Data stored in non-volatile memory

Accessories

T427 – ShockBug Download iButton
T428 – ShockBug Set-up iButton
T429 – ShockBug Clock iButton
SB15 – ShockBug Full Set iButton
SBCK – ShockBug Communication Kit

Disclaimer

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