SHOCKWATCH®
Damage Prevention and Safety Solutions

ShockLog 248 Impact Recorder

- **Alert recipients and operators to inspect goods and equipment for potential damage**
- **Determine baseline damage boundaries**
- **Detect mishandling during shipping, operation and storage,enabling you to identify and assign accountability and take corrective action**
- **Make adjustments to product packaging, loading process, carriers, or mode of transport**
- **Help identify opportunities for improvement through journey profiling**

The ShockLog 248 is the entry model in the ShockLog product line of impact recorders, which includes the ShockLog 298 impact recorder. Available in 10G, 30G, and 100G impact scale ranges, the ShockLog 248 monitors impact and internal temperature, provides peak value (time slot) and summary period journey profile data.

ShockLog 248 delivers a visual alert that your product has encountered impact events that might affect its performance or safety, enabling immediate inspection and remediation at the time shipment is received or before installation in the field. The ShockLog 248 will record the detailed impact curve for the first and 14 most significant events. Up to 128 event notifications are maintained in the event summary log.

Features

- Record max peak X, Y, and Z and internal temperature
- Record impact events (up to 15)
- Field-proven triaxial piezoelectric accelerometer technology
- Show direction of impact: X, Y, and Z
- User-definable alarm levels
- Programmable wake-up levels for maximising battery life
- LED lights for visual notification of alarms and warnings
- Self-contained unit design, free of cables and wires
- iButton and USB data transfer options
- IP67-rated, RF-screened
- Temperature/humidity sensor built into unit (optional)

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Applications

The ShockLog 248 is designed for a variety of applications where a single range/frequency filter is required. This versatile impact sensing solution also offers optional environmental recording capability, monitoring your products in transit, in use, and in storage.

Below is a small sampling of applications in which the ShockLog 248 has been used:

- Automotive parts: Motors, pumps, windshields, engines, transmissions
- Transportation: Rail cars, barges, cranes, and trucking fleets
- Energy: Oil and gas drilling tools, power transformers, nuclear materials, solar panels, and wind turbines
- Defense and aviation: Lasers, missiles, munitions, gyroscopes, aircraft engines, rocket boosters, and satellites
- Medical and research: Lab equipment, particle accelerator systems, MRI machines, dental chairs, x-ray equipment

Data Transfer

The ShockLog has two options for data transfer: USB or iButton interface.

Gain complete programming control and full data access over the USB port. iButtons allow for easy control for setup, download, and start and stop of the ShockLog. An overview can be downloaded using an iButton while keeping the unit secure and tamperproof.

ShockLog Software Allows For Configuration, Data Extraction and Analysis

- Simple Windows-based software program
- Clear instructions for quick deployment and easy data analysis
- Overview of the entire journey with peak acceleration values for all three axes reported on a time basis
- Export data into programs such as Excel for more detailed analysis

Protect Your High Value Assets

Customers use the ShockLog 248 impact recorder to:

- Alert recipients and operators to inspect goods and equipment for potential damage
- Detect mishandling during shipping, operation or storage, enabling you to identify and assign accountability and take corrective action
- Make adjustments to product packaging, loading process, carriers, or mode of transport
- Help identify opportunities for improvement through journey profiling

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Key Specifications

Temperature Range	-40°C to 85°C / -22°F to 185°F
Dimensions	84mm x 84mm x 55mm
Weight	455g (without battery)
Battery Type	1 x 3.6V Lithium thionyl chloride* 1 x 1.5V AA alkaline*
Battery Life	Up to 12 months (w/lithium battery)
Scale Range (factory set)	10G, 30G, 100G
Cut-off Frequency Options (factory set)	40Hz, 90Hz, 250Hz
Time Slots	Up to 262,000
Time Slot Length	10sec to 1 hour

Humidity / Temperature Specifications

Temperature Range	-40°C to 85°C / -22°F to 185°F
Humidity Measuring Range	0 - 100% RH
Dew Point Measuring Range	-40°C to 85°C / -22°F to 185°F / 0 - 100% RH

*Always use lithium batteries for journeys where the temperature may be outside the -5°C to +50°C range. The capacity of alkaline batteries drops dramatically when exposed to temperatures below 10°C. If using a lithium battery and the ShockLog will be traveling by air, make sure the battery is aproved for air cargo. If the batteries are accidentally installed with the wrong polarity, the ShockLog will not be damaged; however, the life of the battery may be severely affected.