SHOCKWATCH®
SMART SOLUTIONS FOR SAFE TRANSIT

ShockLog® 248 Impact Recorder

The ShockLog® 248 is a highly durable impact recorder that can be configured to monitor critical parameters, providing an unmistakable alert that an impact to a shipment, equipment, or building may have compromised its integrity, performance, or safe operation.

ShockLog®t 248 Overview

The ShockLog® 248 is the intermediate model in the ShockLog® series of impact recorders, which includes the ShockLog® 208 and ShockLog® 298 impact recorders. 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. The ShockLog® 248 will record the detailed impact curve of up to 15 events (the first and 14 most severe). Up to 128 event notifications are maintained in the event summary log. Set alarm criteria so you know when unacceptable conditions have been encountered.

Identify Incidents Before Delivery or Installation

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.

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
- Determine baseline damage boundaries
- 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

ShockLog® 248 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: Motor, pumps, windshields, engines, transmissions
- Transportation: Rail cars, barges, cranes, and trucking fleets
- Energy: Oil and gas drilling, 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

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Optional Expanded Capabilities

Extend the value of your ShockLog® impact recorder by providing more intelligence about the conditions affecting your assets. The optional humidity and temperature sensor adds the capability to monitor and record external temperature and humidity conditions.

Data Transfer

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

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

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

Features

- Record max peak X, Y, and Z and internal temperature
- Record impact events for up to 15 events
- Field-proven triaxial piezoelectric accelerometer technology
- Show direction of impact—X, Y, and Z
- User-definable alarm levels
- Programmable wake-up levels for maximizing 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)

Key Specifications	
Operating Temperature Range:	-40°F to 185°F -40°C to 85°C
Size:	3.3in x 3.3in x 2.2in 84mm x 84mm x 55mm
Weight:	1.1lbs (without battery) 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, and 250Hz
Time Slots:	Up to 262,000
Time Slot Length:	10 seconds to 1 hour
Humidity / Temperature Factory Fit Option	
Humidity:	0-100% RH
Temperature:	-40°F to 185°F -40°C to 85°C
Dew Point:	-40°F to 185°F -40°C to 85°C 0-100% RH

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