ShockLog – 298GPS

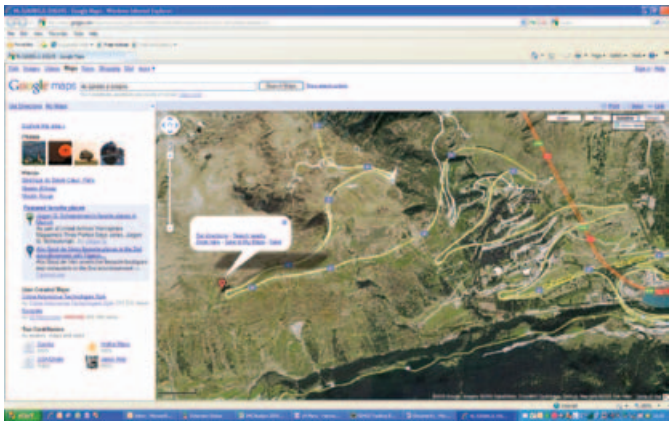
The 298GPS ShockLog combines Lamerholm Electronics advanced tri-axel piezo electric accelerometer technology with sophisticated electronics and software to offer an advanced shock, vibration and GPS monitoring instrumentation.

The 298GPS has been designed to monitor shock and vibration based on acceleration or velocity measurements and incorporates the latest in GPS tracking technology.

The 298GPS ShockLog incorporates all of the features of a standard 298 ShockLog while adding the additional benefit of GPS positioning throughout the journey and for every event.

GPS coordinates are recorded within the 298GPS ShockLog memory. The units will record the GPS coordinates at the end of each summary interval as well as at the point of every event. Upon downloading of the ShockLog data, users can access all of the usual ShockLog data with the GPS coordinates being added to both the summary and event information.

The comprehensive Windows® based software programme allows you to programme your own wake up, warning and alarm levels and frequency of data collection as well as the setting of the acceleration or velocity range and frequency filter. Special hyperlinks have been added to the software allowing users to pinpoint the exact location of an event or summary period with the use of Google maps.



Software hyperlinks pin-point exact location of events using Google maps.

Benefits

- Provides a visible deterrent to incorrect operation and handling
- Decreases costs related to damage incurred during operation, shipping, handling and storage
- Highlights potential areas for improvement in operational, shipping and handling processes.
- Isolates when and where unacceptable conditions occur and identifies accountable parties
- Operational and journey profiling
- Reporting of date, time, GPS coordinates and number of events from last reporting period.
- Hyperlinks are available from software direct to Google Maps.
- Identifies trouble spots in storage and transportation process.

Issue 1

Product Code 298GPS

Series ShockLog

Instruments

Dimensions: 123 x 78 x 55 mm
Weight: 500 grams
Power Supply: 2 x 3.6 volt Lithium Thionyl Chloride battery 2 x 1.5 volt AA Alkaline battery
Case Material: Aluminium
Operating Temperature Range: -40°C to +85°C
Accuracy (full range): -2°C to +2°C
Humidity (option): -3 to +3% RH
Acceleration Ranges: 1,3,10,30,100 & 200g
Velocity Ranges: 1, 3, 10, 30, 100 & 200cm/s
Warning & Alarm Thresholds (%): 5 to 95% (% of range)
Scale Factor: ±2%
Dynamic Range: 2.5mg to 100g

Features

Built in temperature sensor with optional humidity sensors
Integrated GPS technology
Three built in Piezo accelerometers
Optional built in Tilt & Roll sensors
Completely self-contained (battery operated)
Velocity or acceleration measurements
Adjustable warning and alarm thresholds
User selectable frequency cut-off
Low cost standard AA size Lithium or Alkaline battery
LED operation, warning and alarm status indicators
Date, time and GPS coordinates for events
RF screened and CE certified
Complete journey profile (time slot recording)
Detailed recording of significant events
Data stored in non volatile memory

Potential Combinations

Part number	Description
298LH022K	298 ShockLog kit with built in GPS sensor
298LH0Z2	298 ShockLog unit with built in GPS sensor
298LH1Z2K	298 ShockLog kit with built in GPS + humidity sensor
298LH1Z2	298 ShockLog unit with built in GPS + humidity sensor
298LH0Z4K	298 ShockLog kit with Built in Tilt & Roll + GPS sensors
298LH0Z4	298 ShockLog Unit with built in Tilt & Roll + GPS sensors
298LH1Z4K	298 ShockLog Kit with Built in Tilt & Roll + GPS + Humidity sensors

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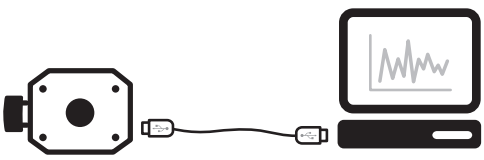

Event data can be downloaded via a USB cable directly to a local PC for analysis