

## Shock Logger II – Decoy Recorder



The Shock Logger II is a set of electronics that is installed in your product creating a powerful damage recording decoy. When installed in a computer disk drive you can profile drive assembly operations, handling shocks, even installation in a computer. Glass food containers are being made thinner and lighter to save on material and shipping costs. With a Shock Logger decoy you can profile product packaging lines and conveyor operations to look for potential glass bruising from impact events.

The Shock Logger includes a tri-axial accelerometer, a high speed 12 bit A/D converter, microprocessor, non-volatile memory, and communication port. It will store any shock pulse above a user-defined level in its internal memory for later upload and analysis on a host computer.

### Shock Logger II - Features



- Self-contained, impact measuring “decoy”
- Tri-axial event recording
- Date and time stamped events
- Records up to 2.5 days
- Samples as fast as 20,000 samples/second/channel
- Miniature size: will fit many 2.5" disk drives
- Easy-to-use furnished Windows setup and analysis software
- User selectable ranges of  $\pm 50$  and  $\pm 500$  G



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## Shock Logger II - Technical Specifications

PHYSICAL	
Envelope Size:	Custom envelope depending on application. For disk drive applications Shock Logger II fits in zip drives, 3.5 in. disk drives and most 2.5 in. disk drives For other decoy applications, contact AGM.
Weight:	35 grams plus decoy and battery weight.

DATA HANDLING	
Resolution:	12 bits
Number of Channels:	3 fixed tri-axially
Sampling Rate:	20.035 sample/s in three channel mode 35.446 sample/s in single channel mode
Clock (real time):	

DATA LOGGING & MEMORY	
Memory Standard:	512 kbytes
Data Acquisition Modes:	Threshold Triggered
Recording Modes:	Fill/Stop, Maximum Overwrite
Minimum Shock Pulse Duration:	0.5 milliseconds
Acquired Data Each Event:	Digitized tri-axial waveforms, time and date
Data Storage Device:	Non-volatile RAM
Communication Speed with PC:	RS-232 serial interface at 115.2k baud

SYSTEM CONFIGURATION	
Host Computer Requirements:	Windows 95, 98 or NT compatible, standard serial port 2K, XP
Furnished Host Software:	Proprietary, Windows 95, 98 or NT based

SENSING	
Acceleration Ranges:	±50 G, ±500 G
Acceleration Channel Filters:	4KHz, 3-pole Butterworth

ENVIRONMENTAL	
Power Supply:	3 Ni-Cad batterieies with built-in charging circuit
Battery Life (nominal):	4 hours with "button cells" 10 hours with AAA, 2.5 days with AA 10+ days with External Battery Pack

STANDARD ANALYSES (GRAPHIC & TABULAR)	
Quick Time History	Histograms
Tri-axial Acceleration Waveforms	Acceleration vs. Velocity Change
Vector Sume Waveforms	Event Table



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