

### FEATURES

- ❖ High speed download
- ❖ N.I.S.T. traceable
- ❖ Real-time operation
- ❖ Low cost
- ❖ Programmable start time
- ❖ Reusable
- ❖ Compact
- ❖ User-friendly
- ❖ Built-in accelerometers

### APPLICATIONS

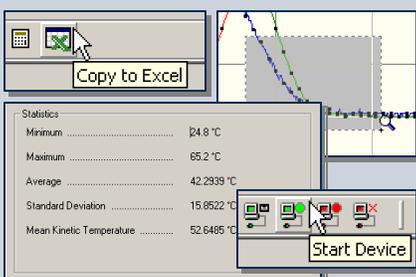
- ❖ Assembly line monitoring
- ❖ Brake testing
- ❖ Fragility testing
- ❖ Laboratory drop testing
- ❖ Aircraft turbulence measurement
- ❖ Machinery monitoring
- ❖ Railcar coupling impacts
- ❖ Shipment monitoring



The SHOCK101 is a battery powered, stand alone 3-axis shock recorder. The SHOCK101 measures and records shock as the peak acceleration levels over the user defined interval. The SHOCK101 is specifically designed for documenting dynamic environments such as moving vehicles, trucks, containers, ships, etc. The device is also valuable in characterizing environments such as production and assembly lines of delicate equipment, IC fabrication, communications and computer components. This is an all-in-one compact, portable, easy to use device that will measure and record up to 43,690 measurements per channel. The storage medium is non-volatile solid state memory, providing maximum data security even if the battery becomes discharged. The device can be started and stopped directly from your computer and it's small size allows it to fit almost anywhere. The SHOCK101 makes data retrieval quick and easy. Simply plug it into an empty com port and our user-friendly software does the rest.

### SOFTWARE

MadgeTech's Data Recorder Software is an easy to use Windows-based software package that allows the user to effortlessly collect, display and analyze data. A variety of powerful tools allow you to examine, export, and print professional looking data with just a click of the mouse.



## SHOCK101 SPECIFICATIONS

<b>Acceleration Range:</b> ±50 g	<b>Calibration:</b> Digital calibration through software
<b>Acceleration Resolution:</b> 0.1g (12 bit)	<b>Calibration Date:</b> Automatically recorded within device
<b>Calibrated Accuracy:</b> ±1 g	<b>Power:</b> 9V lithium or alkaline battery included
<b>Sampling Rate:</b> 2 millisecond ( > 500 Hz )	<b>User Replaceable Battery:</b> 7 days typical with lithium battery
<b>Reading Interval:</b> 8 readings every second to 1 every hour	<b>Data Format:</b> Date and time stamped g
<b>Memory:</b> 43,690 readings per channel	<b>Time Accuracy:</b> ±1 minute/month (at 20 °C, RS232 port not in use)
<b>Start Time:</b> Software programmable start time and date. Up to 24 hours in advance	<b>Computer Interface:</b> PC serial or RS232C COM (Interface cable required); 28,800 baud
<b>Real Time Recording:</b> May be used with PC to monitor and record instantaneous acceleration in real time	<b>Software:</b> Windows 95/98/ME/NT/2000/XP based software
	<b>Operating Environment:</b> -20 °C to +70 °C, 0 to 90 %RH non-condensing
	<b>Dimensions:</b> 1.0" x 3.5" x 4.4" (26mm x 89mm x 112mm)
	<b>Weight:</b> 15 oz (435 g)

## SOFTWARE FEATURES

<b>Multiple Graphs:</b> Simultaneously analyze data from several units or deployments; easily switch to a single data series	<b>Statistics:</b> Calculate averages, min, max, standard deviation, and mean kinetic temperature with the touch of a button
<b>Real-Time Recording:</b> Collect and display data in real-time while continuing to log	<b>Export Data:</b> Export data in a variety of common formats, or switch to Excel with a single click
<b>Graphical Cursor:</b> One click displays readings by time, value, parameter or sample number	<b>Calibration:</b> Fully digital calibration function automatically stores parameters in device
<b>Data Table:</b> Instantly access tabular view for detailed dates, times, values, and annotations	<b>Logger Configuration:</b> Easy set up and launch of data loggers with immediate or delayed start, preferred sample rate, and device ID
<b>Scaling Options:</b> Autoscale function fits data to the screen, or allows user to manually enter their own values	<b>Communications:</b> Automatically sets up communications port, or lets user set configuration
<b>Formatting Options:</b> Change colors, line styles, plotting options, show or hide channels in an instant	<b>Printing:</b> Automatically print graphical or tabular data

\*As part of our commitment to continuous product improvement, MadgeTech reserves the right to change product specifications without notice.

### ORDERING INFORMATION

Model	Description
SHOCK101	Shock Recorder
IFC101	Software, manual and 9-pin computer interface cable
N.I.S.T. Cert	N.I.S.T. Calibration Certificate

### ASK ABOUT OUR OTHER DATA RECORDERS

<b>Temperature</b>	<b>Voltage</b>
<b>Humidity</b>	<b>Current</b>
<b>Pressure</b>	<b>Submersible</b>
<b>pH</b>	<b>Intrinsically Safe</b>
<b>Level</b>	<b>RF Transmitters</b>
<b>Shock/Vibration</b>	<b>Multi-parameter</b>
<b>Pulse/Event</b>	



201 Route 103 West - PO Box 50 · Warner, NH 03278  
Phone: (603) 456-2011 · Fax: (603) 456-2012  
info@madgetech.com · www.madgetech.com