SHOCK101 TRI-AXIAL SHOCK DATA LOGGER

Features

- Records 3-axis shock
- Built-in accelerometers
- Measures dynamic and static acceleration
- Real Time operation
- Low cost
- Programmable start time
- Reusable
- Compact
- CE compliant
- Optional password protection
- High speed download (115,200 baud)

Applications

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

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 349,525 measurements per axis. 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 USB port and our user-friendly software does the rest.



MADGETECH DATA LOGGER SOFTWARE

Software Features:

- Multiple graph overlay
- Statistics
- Digital calibration
- Zoom in/ zoom out
- Lethality equations (F0, PU)
- Mean Kinetic Temperature
- Full time zone support
- Data annotation
- Min./Max./Average lines
- Data table view
- Automatic report generation
- Summary view
- Multilingual



SHOCK101 SPECIFICATIONS*

Channels:	Shock (3 axes)				Calibration:	Digital calibration through software
Accelerometer Type:	MEMS Semiconductor				Calibration Date:	Automatically recorded within device
Acceleration Range (g):	±5	±50	±100	±250		9V lithium or alkaline battery included;
Calibrated Accuracy (g):	±0.2	±1	±2	±4	Battery Type:	user replaceable
Acceleration Resolution (g):	0.01	0.05	0.1	0.2	Battery Life:	7 days typical with lithium battery
Sample Rate:	at this rat	/512 hz (ne e, only pea	ık values ar	e written	Data Format:	Date and time stamped gravities (g and mg)
	at the end of a recording interval)				Time Accuracy:	±1 minute/month (at 20 °C to 30 °C)
Frequency Response:	0 Hz to approx. 400 Hz				Computer Interface:	USB (interface cable required); 115,200 baud
Memory:	349,525 readings per channel; 1,398,100 total readings				Software:	XP SP3/Vista/Windows 7/Windows 8
Reading Rate:	64 Hz to 5 minutes for shock, selectable in software				Operating Environment:	-20 °C to +60 °C, 0 %RH to 95 %RH non-condensing
Real Time Recording:	May be used with PC to monitor and record instantaneous acceleration in real time (1 second or slower reading rate)				Dimensions:	3.5 in x 4.4 in x 1.0 in (89 mm x 112 mm x 26 mm)
					Weight:	12 oz (340 g)
Start Modes:	Software programmable immediate start				Materials:	Anodized aluminum
	or delay start up to 180 days in advance				Approvals:	CE
Password Protection:	An optional password may be programmed into the device to restrict access to configuration options. Data may be read out without the password			s. Data	BATTERY WARNING: DISCARD USED BATTERY PROMPTLY. KEEP OUT OF REACH OF CHILDREN. DO NOT DISPOSE OF IN FIRE, RECHARGE, PUT IN BACKWARDS, DISASSEMBLE, OR MIX WITH OTHER BATTERY TYPES. MAY EXPLODE, FLAME, OR LEAK AND CAUSE PERSONAL INJURY.	

ORDERING INFORMATION

MODEL	DESCRIPTION	Te
SHOCK101-5	±5g Tri-Axial Shock Recorder	ASK ABOUT OUR OTHER DATA
SHOCK101-50	±50g Tri-Axial Shock Recorder	LOGGERS LCC Pulse/
SHOCK101-100	±100g Tri-Axial Shock Recorder	C
SHOCK101-250	±250g Tri-Axial Shock Recorder	Intrins Spectra M
IFC200	Software, manual and USB interface cable	
U9VL-J	Replacement battery for Shock101	



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