SHOCK300 TRI-AXIAL SHOCK DATA LOGGER



Features

- Compact size
- · 3-axis shock
- Fully configurable measurements
- Long life rechargeable battery
- Large capacity event memory
- Programmable start time
- Real-time operation
- CE compliant
- Separate low-g and high-g accelerometers

Applications

- Complete environmental shipment monitoring
- Shipping live cargo
- Aircraft turbulence measurement
- · Endurance testing
- · Assembly line monitoring
- · Brake testing
- · Laboratory drop testing
- Machinery monitoring
- · Railcar coupling impacts

The Shock300 is a battery powered, stand alone 3-axis shock data logger. The Shock300 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 electronics, IC fabrication, communications and computer



components. This compact, portable, easy to use device will measure and record up to 4,192,254 measurements. 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 its small size allows it to fit almost anywhere. The Shock300 makes data retrieval quick and easy. Simply plug it into an empty USB port and our user-friendly software does the rest.

The Shock300 provides simple ordering as one model which provides three acceleration ranges. The ranges are implemented on separate low-g and high-g accelerometers for excellent resolution and accuracy.

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

SHOCK300 SPECIFICATIONS*

*Specifications are subject to change without notice. Specific warranty remedy limitations apply. Call (603) 456-2011 or go to madgetech.com for details.

SHOCK

Accelerometer Type:	MEMS Semiconductor		
Acceleration Range (g):	±15 g	±100 g	±300 g
Acceleration Resolution (g):	0.02 g	0.05 g	0.2 g
Calibrated Accuracy (g):	±0.3 g	±2.0 g	±6.0 g
Sampling Rate:	1000 Hz		
Accelerometer Freq. Resp.:	>1000 Hz (15 g) >500 Hz (100 g, 300 g)		
Reading Rate:	1024 Hz to 5 minutes for shock, selectable in software.		

BATTERY WARNING: FIRE, EXPLOSION AND SEVERE BURN HAZARD. DO NOT SHORT CIR-CUIT, CRUSH, PENETRATE, INCINERATE OR DISASSEMBLE. AVOID TEMPERATURES ABOVE THE MAXIMUM OPERATING TEMPERATURE OF THE PRODUCT. DISPOSE OF PROPERLY. CHARGE ONLY WITH THE PROVIDED MADGETECH CHARGER, OR FROM OTHER USB POWER SOURCE VIA THE MADGETECH PROVIDED CABLE.

Memory:	4,192,254 readings (1,397,418 per channel, all channels in use)	
Start Modes:	Software programmable immediate start or delay start, up to 6 months in advance	
Real Time Recording:	May be used with PC to monitor and record instantaneous measurements in real time	
Password Protection:	An optional password may be programmed into the device to restrict access to configuration options. Data may be read out with the password.	
Calibration:	Digital calibration through software	
Calibration Date:	Automatically recorded within device	
Battery Type:	Internal Lithium Ion pack, charger included	
Battery Life:	90 days typical at 64Hz rate	
Data Format:	Date and time stamped gravities (g and mg)	
IP Rating:	IP64	
Time Accuracy:	10 seconds/month (at 0 °C to 50 °C)	
Computer Interface:	USB (type C cable required); 1MBaud	
Software:	Windows XP SP3 or later	
Software Compatibility:	Standard Software version 4.2.16.0 or later Secure Software version 4.2.17.0 or later	
Operating Environment:	-20 °C to +60 °C, 0 %RH to 95 %RH non-condensing	
Dimensions:	3.4 in x 1.7 in x 1.3 in (86 mm x 43 mm x 33 mm)	
Weight:	8 oz (227 g)	
Enclosure:	Anodized aluminum	
Approvals:	CE compliant EMC Directive 2014/30/EU RoHS Directive 2011/65/EU	

ORDERING INFORMATION

MODEL	PART NUMBER	DESCRIPTION
SHOCK300	902167-00	±15 g / ±100 g / ±300 g Tri-Axial Shock Data Logger, Battery Charger and USB Type C Interface Cable

Temperature Humidity **ASK ABOUT** Pressure **OUR OTHER** рΗ DATA Level LOGGERS Shock LCD Display Pulse/Event/State Current Voltage Wireless Intrinsically Safe Spectral Vibration Motion

For Quantity Discounts call (603) 456-2011 or email sales@madgetech.com



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