

Features

- All inclusive design
- Built-in accelerometers
- 60 day battery life
- High speed download
- Low cost
- Reusable
- User-friendly
- CE compliant

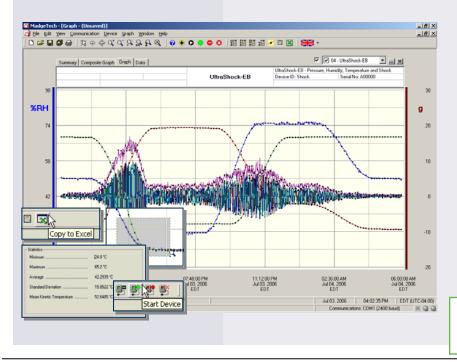
Applications

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

The UltraShock-EB is a battery powered, stand alone temperature, pressure, humidity and 3-axis shock recorder which offers a battery life of up to 60 days typical. The unit measures and records temperature, pressure and humidity at the selected reading rates, while shock is recorded as the peak acceleration levels over the same interval.



The UltraShock-EB 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 is an all -in-one compact, portable, easy to use device that will measure and record up to 174,762 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. The UltraShock-EB makes data retrieval quick and easy. Simply plug it into an empty USB port and our user-friendly software does the rest.



MadgeTech Data Recorder Software displays shock, temperature, humidity, and pressure data in an easy to use graph.

The Windows[®]-based software package 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.

Click <u>MadgeTech Software</u> for more information or to download the software.

Supplied in Australia by Instrument Choice Call our scientists on 1300 737 871 www.instrumentchoice.com.au

ULTRASHOCK-EB SPECIFICATIONS*

TEMPERATURE					Memory:	174,762 readings per channel		
Sensor:	Semiconductor				Reading Rate:	64Hz to 5 minutes for shock, selectable in software.		
Range:	-20 to +54°C					Temperature, pressure and humidity, approximately every 2 seconds at intervals faster than 2 seconds,		
Resolution:	0.1°C					otherwise sampled at the reading rate.		
Accuracy:	±0.5°C (0 to +50°C)				Start Modes:	Software programmable immediate start or delay start up to 180 days from PC launch.		
HUMIDITY								
Sensor:	Capacitive Polymer				Password Protection:	An optional password may be programmed into the		
5	0 to 95%RH					device to restrict access to configuration options. Data may be read out without the password.		
Resolution:					Calibration:	Digital calibration through software		
,	±3%RH (±2%RH typical at 25°C)				Calibration Date:	Automatically recorded within device		
, , ,	+10 to +40°C; 10 to 80%RH			bRH	Battery Type:	6 D-cell alkaline batteries, user replaceable		
PRESSURE	Semiconductor Strain Gage 0 to 30PSIA					60 days typical at 25°C, 1 minute reading rate		
				ge	Data Format:	Date and time stamped gravities (g and mg), temperature (°C, °F, K, °R), humidity (%RH, mg/ml water vapor con-		
5								
Resolution:	0.002PSIA					centration), pressure (PSIA, inHg, mmHg, bar, atm, Torr, Pa, kPa, MPa)		
,	±1.0%FSR at 25°C; ±0.2% typical			% typical	Time Accuracy			
Specified Accuracy Range:	0 to 30 PSIA, 25°C					±1 minute/month at 20 to 30°C		
SHOCK					Computer Interface:	USB (interface cable required); 115,200 baud		
Accelerometer Type:					Software:	XP SP3/VIsta/Windows 7		
Acceleration Range (g):	±5g	±50g	±100g	±250g	Operating Environment:	-20 to +54°C, 0 to 95%RH (non-condensing)		
Acceleration Resolution (g):	0.01g	0.05g	0.1g	0.2g	• •	5.5" x 5.4" x 3.2" (140mm x 137mm x 80mm)		
Calibrated Accuracy (g):	±0.2g	±1.0g	±2.0g	±4.0g	Weight:	80 oz. (2.3kg)		
Absolute Max. Acceleration:	200g (all versions)				5	Anodized aluminum		
Sampling Pater	1.953ms/512Hz				Approvals: CE			
1 5								
Accelerometer Freq. Resp.:		pprox. 4	IUUTZ					

BATTERY WARNING: DO NOT CONNECT IMPROPERLY, CHARGE OR DISPOSE OF IN FIRE, BATTERY MAY EXPLODE OR LEAK.

SOFTWARE FEAT	URES	BATTERT WARNING. DO NOT CONNECT IMPROPERLY, CHARGE OR DISPOSE OF IN FIRE, BATTERY MAY EXPLODE OR LEAK.		
Multiple Graphs:	Simultaneously analyze data from several units or deployments; easily switch to a single data series	Statistics:	Calculate average, min, max, standard deviation, and mean kinetic temperature with the touch of a button	
Graphical Cursor:	One click displays readings by time, value, parameter or sample number	Export Data:	Export data in a variety of common formats, or switch to Excel® with a single click	
Data Table:	Instantly access tabular view for detailed dates, times, values, and annotations	Logger Configuration:	Easy set up and launch of data loggers with immediate or delayed start, preferred sample rate, and device ID	
Scaling Options:	Autoscale function fits data to the screen, or allows user to manually enter their own values	Communications:	Automatically sets up communications port, or lets user select configuration	
Formatting Options:	Change colors, line styles, plotting options, show or hide channels quickly	*SPECIFICATIO	NS ARE SUBJECT TO CHANGE WITHOUT NOTICE.	

ORDERING INFORMATION

*SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. SPECIFIC WARRANTY AND REMEDY LIMITATIONS APPLY. CALL 1-603-456-2011 OR GO TO WWW.MADGETECH.COM FOR DETAILS.

Model	Description	<u>Price (U.S.)</u>	ASK ABOUT OUR OTHER	
ULTRASHOCK-5-EB	Temperature, Humidity, Pressure and $\pm 5g$ Tri-Axial Shock Recorder	DATA RECORDERS Temperature Pulse/Event/State		
ULTRASHOCK-50-EB	Temperature, Humidity, Pressure and $\pm 50g$ Tri-Axial Shock Recorder	\$899.00	HumidityLow Level CurrentPressureLow Level VoltagepHRF TransmittersLevelIntrinsically SafeShockSpectral VibrationLCD Display	
ULTRASHOCK-100-EB	Temperature, Humidity, Pressure and $\pm 100g$ Tri-Axial Shock Recorder	\$899.00		RF Transmitters Intrinsically Safe
ULTRASHOCK-250-EB	Temperature, Humidity, Pressure and $\pm 250g$ Tri-Axial Shock Recorder	\$899.00		
IFC200	Software, manual and USB interface cable	\$119.00		
NIST	N.I.S.T. Calibration Certificate	Call for Pricing		
MN1300	Replacement battery for UltraShock-EB (6 required)	\$30.00 for set		

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



DOC-1118009-00 REV J 2010.12.17