

Device Maintenance

Battery Replacement

Materials:
 3/32" HEX Driver (Allen Key)
 Replacement Battery (MN1300)

- Remove the cover from the device by unscrewing the four screws.
- Remove the battery from its compartment and unsnap it from the connector.
- Snap the new battery into the terminals and verify it is secure.
- Replace the cover taking care not to pinch the wires. Screw the enclosure back together securely.

Note: Be sure not to over tighten the screws or strip the threads.

Battery Warning

WARNING: FIRE, EXPLOSION, AND SEVERE BURN HAZARD. DO NOT SHORT CIRCUIT, CHARGE, FORCE OVER DISCHARGE, DISASSEMBLE, CRUSH, PENETRATE OR INCINERATE. BATTERY MAY LEAK OR EXPLODE IF HEATED ABOVE 54°C (129°F).

Recalibration

The UltraShock-EB standard calibration is one point at 25°C, two points at 25%RH and 75%RH, two points at 15PSI and 27-30PSI and 0g for the x-axis, 0g for the y-axis and 7g for the z-axis.

Note: The shock parameters are not traceable to NIST.

Pricing:

Recalibration traceable to NIST \$156.00
 Recalibration \$136.00

Additional:

As Found Data \$15.00 per channel
 Verification Point \$15.00 per point
 Non-NIST Traceable certificate \$30.00

To send the devices back, visit www.madgetech.com, select Services then RMA Process.

Part Number	UltraShock-EB
Channels	Shock (3 axes), Temperature, Humidity, Pressure
Range	
Resolution	*See Table Below
Accuracy	
Memory	174,762/channel
Sample Rate	64Hz up to 1 hour
Required Interface Package	IFC110 or IFC200
Baud Rate	115,200
Typical Battery Life	60 days
Operating Environment	-20 to +54°C, 0 to 95%RH (non-condensing)
Material	Anodized aluminum
Dimensions	6.0" x 8.3" x 1.8" (153mm x 211mm x 46mm)
Approvals	CE

*UltraShock-EB Acceleration Range, Resolution and Accuracy

Channel	Shock	Temperature	Humidity	Pressure
Range	-50 to +50g	-40 to +80°C	0 to 95%RH	0 to 30PSIA
Accuracy	±1g	±0.5°C	±3%RH	±1%FSR @ 25°C
Resolution	0.05g	0.1°C	0.5%RH	0.002PSIA

Specifications subject to change.
 See MadgeTech's terms and conditions at www.madgetech.com

UltraShock-EB



UltraShock-EB

Temperature, Humidity, Pressure, and Tri-Axial Shock Recorder with Extended Battery Life

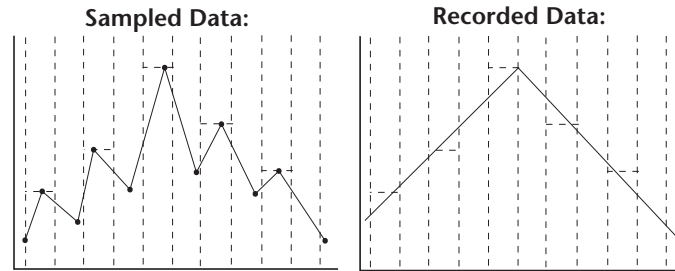
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Product Notes

Reading Intervals

The UltraShock-EB records peak acceleration levels for a specified reading interval. This means that the UltraShock-EB will record the largest acceleration on each of the axes during each reading interval.

For Example:



Axis

When the UltraShock-EB is laying flat with the label facing up, the x-axis is the one that reads left to right and will read around 0 when still. The y-axis reads top to bottom and will read around 0 when still. The z-axis reads perpendicular to the other two axis's, and will read around 1 when still.

Installation Guide

Installing the Interface cable

- IFC200, IFC202 or IFC300
Refer to the "Quick Start Guide" included in the package.
- IFC110, IFC102 or IFC103
Plug the serial cable into the port and verify it is secure.
- USB-1 or USB-101
Install the USB drivers from the CD provided in the kit, then plug the USB cable into the computer and the serial cable into the serial port.

Installing the software

Insert the Software CD in the CD-ROM Drive. If the autorun does not appear, locate the drive on the computer and double click on **Autorun.exe**. Follow the instructions provided in the Wizard.

Connecting the data logger

- Once the software is installed and running, plug the interface cable into the data logger.
- Click the **Communication Menu**, then **Auto Configure Port**.
- After a moment, a box similar to the following will appear;



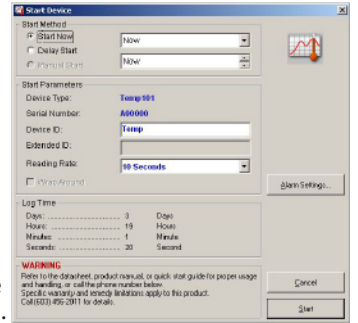
- Click **OK**. The **Device Status** box will appear. Click **OK**.
- At this point, communications have been configured for your logger. These settings can be found under the **Communication Menu**.

Note: For additional installation instructions refer to your "Data Logger & Software Operating Manual".

Device Operation

Starting the data logger

- Click **Device Menu** then **Start Device**.
- Choose the desired start method.
- Choose the start parameters by selecting a **Reading Rate** suitable for your application.
- Enter in any other desired parameters and click **Start**.
- A box will appear stating the data logger has been started. Click **OK**.



- Disconnect the data logger from the interface cable and place it in the environment to measure.

Note: The device will stop recording data when the end of memory is reached or the device is stopped. At this point the device cannot be restarted until it has been re-armed by the computer.

Downloading data from a data logger

- Connect the data logger to the interface cable.
- Click the **Device Menu** then **Read Device Data**. This will offload all recorded data onto the PC.

Technical Support

Visit www.madgetech.com, or call (603) 456-2011. Technical support is also available by e-mailing support@madgetech.com

Additional product information is available by e-mailing info@madgetech.com.