ULTRASHOCK

Pressure, Humidity, Temperature & Tri-Axial Shock Recorder

FEATURES

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

APPLICATIONS

- Total environmental shipment monitoring
- Assembly line monitoring
- Brake testing
- Fragility testing
- Laboratory drop testing
- Aircraft turbulance measurement
- Machinery monitoring
- · Railcar coupling impacts

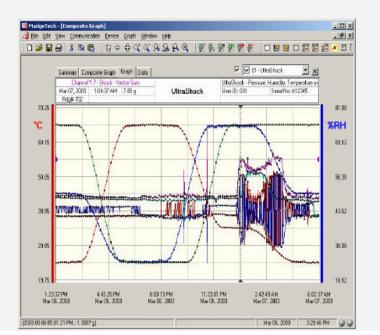


The ULTRASHOCK is a battery powered, stand alone temperature, pressure, humidity and 3-axis shock recorder. The ULTRASHOCK measures and records temperature, pressure and humidity at the selected reading rates, while shock is recorded as the peak acceleration levels over the same interval. The ULTRASHOCK 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 23,831 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 ULTRASHOCK 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.





ULTRASHOCK SPECIFICATIONS

Temperature Range: -40 °C to +80 °C Reading Interval: 1 reading every 2 seconds to 1 every 12 hours

Start Time: Software programmable start time and date. Up to Temperature Resolution: 0.1 °C

24 hours in advance Calibrated Accuracy: ±0.5 °C (0 to +50°C)

Real Time Recording: May be used with PC to monitor and record data in real time

Humidity Range: 0 to 100% RH

Humidity Resolution: 0.5% RH Calibration: Digital calibration through software Calibrated Accuracy: ±3%RH (±2% RH typical at 25 °C) Calibration Date: Automatically recorded within device

Power: 9V lithium or alkaline battery included

Pressure Range: 0 to 30 PSIA *User Replaceable Battery: 7 days typical

Data Format: Date and time stamped °C, °F, °K, °R; %RH. mg/ Pressure Resolution: 0.002 PSIA

ml water vapor concentration; PSIA, inHg, mmHg, Calibrated Accuracy: ±1.0% FSR at 25 °C; ±0.2% typical

bar, atm, Torr, Pa, kPa, MPa, altitude; g

Time Accuracy: ±1 minute/month (at 20 °C, RS232 port not in use)

Computer Interface: PC serial or RS232C COM (Interface cable Acceleration Range: ±50 g

required); 28,800 baud Acceleration Resolution: 0.1q (12 bit)

Software: Windows 95/98/ME/NT/2000/XP based software Calibrated Accuracy: ±0.5 g

Sampling Rate: 2 millisecond (> 500 Hz) Operating Environment: -20 °C to +70 °C, 0 to 90 %RH non-condensing Dimensions: 1.0" x 3.5" x 4.4" (26mm x 89mm x 112mm)

Memory: 23,831 readings per channel Weight: 15 oz (435 g)

SOFTWARE FEATURES

Multiple Graphs: Simultaneously analyze data from Statistics: Calculate averages, min, max, standard devia-

tion, and mean kinetic temperature with the several units or deployments; easily

touch of a button

Real-Time Recording: Collect and display data in real-time Export Data: Export data in a variety of common formats, or

while continuing to log switch to Excel with a single click

Graphical Cursor: One click displays readings by time, Calibration: Fully digital calibration function automatically

value, parameter or sample number stores parameters in device

Data Table: Instantly access tabular view for de-Logger Configuration: Easy set up and launch of data loggers with

tailed dates, times, values, and animmediate or delayed start, preferred sample

notations rate, and device ID

Scaling Options: Autoscale function fits data to the Communications: Automatically sets up communications port, or

screen, or allows user to manually lets user set configuration enter their own values

Formatting Options: Change colors, line styles, plotting Printing: Automatically print graphical or tabular data

options, show or hide channels in an

instant

switch to a single data series

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

ORDERING INFORMATION

Model Description

ULTRASHOCK Pressure, Humidity & Temperature

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

Temperature Voltage Humidity Current Pressure Submersible pН Intrinsically Safe RF Transmitters Level Shock/Vibration Multi-parameter

Pulse/Event