ULTRASHOCK TEMPERATURE, HUMIDITY, PRESSURE & TRI-AXIAL SHOCK DATA LOGGER

Features

- Compact size
- 3-axis shock
- Temperature, humidity, pressure
- 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 UltraShock is a battery powered, stand alone temperature, pressure, humidity and 3-axis shock data logger. 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.



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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 compact, portable, easy to use device will measure and record up to 4,000,000 measurements (for a single 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 its small size allows it to fit almost anywhere. The UltraShock makes data retrieval quick and easy. Simply plug it into an empty USB port and our user-friendly software does the rest.

The UltraShock 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

www.logicbus.com.mx

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ULTRASHOCK SPECIFICATIONS*

					4 000 000 mm dia m
TEMPERATURE				Memory:	4,000,000 readings (660,000 per channel, all channels in use)
Sensor:	Semiconducto	or			Software programmable immediate start or delay
Range:	-20 °C to +60	°C		Start Modes:	start, up to 6 months in advance
Resolution:	0.1 °C			Deal Time Decending	May be used with PC to monitor and record
Accuracy:	±0.5 °C (0 °C t	o +50 °C)		Real Time Recording:	instantaneous measurements in real time
HUMIDITY					An optional password may be programmed into
Sensor:	Capacitive Po	lymer		Password Protection:	the device to restrict access to configuration options. Data may be read out with the password.
Range:	0 %RH to 95 %	6RH		Calibration:	Digital calibration through software
Resolution:	0.1 %RH				
Calibrated Accuracy:	±3 %RH (±2 %	RH typical at 2	5 °C)	Calibration Date:	Automatically recorded within device
Specified Accuracy Range:	0 °C to +50 °C	; 20 %RH to 80 9	%RH	Battery Type:	Internal Lithium Ion pack, charger included
PRESSURE				Battery Life:	90 days typical at 64Hz rate
Sensor:	Semiconducto	or Strain Gage			Date and time stamped gravities (g and mg),
Range:	100 to 1300 m	bar		Data Format:	temperature (°C, °F, K, °R), humidity (%RH, mg/ ml water vapor concentration), pressure (PSIA,
Resolution :	0.05 mbar				inHg, mmHg, bar, atm, Torr, Pa, kPa, MPa)
Calibrated Accuracy :	±1.5 mbar at 2	25 °C; at 750 mb	bar	IP Rating:	IP64
SHOCK				Time Accuracy:	10 seconds/month (at 0 °C to 50 °C)
Accelerometer Type:	MEMS Semico			Computer Interface:	USB (type C cable required); 1MBaud
Acceleration Range (g):	±15 g	±100 g	±300 g	Software:	Windows XP SP3 or later
Acceleration Resolution (g):	0.02 g	0.05 g	0.2 g		
Calibrated Accuracy (g):	±0.3 g	±2.0 g	±6.0 g	Operating Environment:	-20 °C to +60 °C, 0 %RH to 95 %RH non-condensing
Sampling Rate:	1000 Hz				3.4 in x 1.7 in x 1.3 in
Accelerometer Freq. Resp.:	>1000 Hz (15 >500 Hz (100	,		Dimensions:	(86 mm x 43 mm x 33 mm)
		ninutes for sho		Weight:	8 oz (227 g)
Deading Dates		re. Temperatur mpled approx.		Enclosure:	Anodized aluminum
Reading Rate:		ntervals shorter herwise, sample		Approvals:	CE compliant EMC Directive 2014/30/EU RoHS Directive 2011/65/EU IP Rating 64

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

TRASHOCK 902121-00 Temperature, Humidity, Pressure and ±15 g / ±100 g / ±300 g Tri-Axial Shock Data Logger, Battery Charger and USB Type C Interface Cable ASK ABOUT OUR OTHER DATA LOGGERS Humidity, Pressure and USB Type C Interface Cable

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Intrinsically Safe Spectral Vibration Motion