

RECORDER SIMULTANEOUSLY LOGS SHOCK, TEMPERATURE, HUMIDITY & PRESSURE

Available in 5g, 50g, or 100g models, Telatemp's programmable UltraSHOCK+ Data Recorder is a battery-powered, stand-alone data logger that measures and records up to 174,762 date and time stamped measurements per channel. The UltraSHOCK+ measures and records temperature, pressure, and humidity at the selected reading rates, while shock in 3 axes is recorded as the peak acceleration level over the same interval. This time bin+feature ensures that shock data is recorded at the maximum value. The storage medium is non-volatile solid state memory, providing maximum data security even if the battery becomes discharged.

The UltraSHOCK+ Recorder is designed to operate within moving environments such as vehicles, trains and ships. The device is also useful in characterizing environments such as production and assembly lines of delicate electronics, IC fabrication, communications and computer components, as well as active, vibration-sensitive pharmaceuticals. The UltraSHOCK+ is supplied with three internal accelerometers oriented for measurement of three perpendicular axes. The unit can be mounted in any orientation.

Powered by a replaceable 9V lithium or alkaline battery. Typical battery life is up to 7 days.

With the Telatemp Micro Series Software*, starting, stopping and downloading from the UltraSHOCK+ Recorder is simple and easy. Data can also be viewed in graphical, tabular, and summary form, displayed in date and time stamped gravities (g and mg), temperature (°C, °F, K, °R), humidity (%RH, mg/ml water vapor concentration), pressure (PSIA, inHg, mmHg, bar, atm, Torr, Pa, kPa, MPa) and saved to your PC as an electronic file. The data can also be exported to Excel® for further calculations.

Complete user manual can be viewed onscreen or printed out from the software.

*MLSP-USB Software & USB Interface is required.

FEATURES

- Built-in accelerometers
- All inclusive design
- Compact
- Programmable start time
- High speed download
- Real-time operation
- Reusable
- User-friendly
- CE compliant

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

TO ORDER

- UltraSHOCK+ Data Recorder (specify 5g, 50g, or 100g models)
- MLSP-USB Software & USB Interface



WARRANTY: The following is made in lieu of all warranties, expressed or implied, including the implied warranties of merchantability and fitness of purpose: Seller's and manufacturers' only obligation shall be to replace such quantity of the product proved by Telatemp Corporation to be defective.

LIMITATION OF LIABILITY: All physical properties, statements, and recommendations are either based on tests we believe to be reliable or our experience, but they are not guaranteed. Telatemp Corporation recommends each user determine the suitability of the products for the intended application. Telatemp Corporation shall not be liable for direct, indirect, special, incidental or consequential damages based upon breach of warranty, breach of contract, negligence, strict liability or any other legal theory.

**Prices and specifications are subject to change without notice.*

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ULTRASHOCK+ RECORDER SPECIFICATIONS:**TEMPERATURE**

Sensor: Semiconductor
Range: -20 to +60°C
Resolution: 0.1°C
Accuracy: ±0.5°C (0 to +50°C)

HUMIDITY

Sensor: Capacitive Polymer
Range: 0 to 95%RH
Resolution: 0.1%RH
Accuracy: ±3%RH (±2%RH typical at 25°C)
Specified Accuracy Range: +10 to +40°C; 10 to 80%RH

PRESSURE

Sensor: Semiconductor Strain Gage
Range: 0 to 30PSIA
Resolution: 0.002PSIA
Calibrated Accuracy: ±1.0%FSR at 25°C; ±0.2% typical

SHOCK

Accelerometer Type: MEMS Semiconductor
Acceleration Range (g): ±5g ±50g ±100g
Acceleration Resolution (g): 0.01g 0.05g 0.1g
Calibrated Accuracy (g): ±0.2g ±1.0g ±2.0g
Sampling Rate: 1.953 millisecond (512Hz) (note: data is sampled at this rate, only peak values are written at the end of a recording interval)
Accelerometer Freq.Resp: 0Hz to approx. 400Hz
Reading Rate: 64Hz to 5 minutes for shock, selectable in software. Temperature, pressure & humidity sampled approx. every 2 seconds at intervals shorter than 2 seconds. Otherwise, sampled at the reading rate.
Memory: 174,762 readings per channel
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: Replaceable 9V lithium or alkaline battery included
Battery Life: 7 days typical with lithium battery, 1 min. reading rate @ 25°C
Data Format: Date and time stamped gravities (g and mg), temperature (°C, °F, K,°R),humidity (%RH, mg/ml water vapor concentration), pressure (PSIA, inHg, mmHg, bar, atm, Torr, Pa, kPa, MPa)
Time Accuracy: ±1 minute/month (at 2 to 30°C)
Computer Interface: USB (interface cable required); 115,200 baud
Software: XP SP3 / Vista / Windows 7
Operating Environment: -20 to +60°C, 0 to 95%RH non-condensing
Dimensions: 3.5+x 4.4+x 1.0+(89mm x 111mm x 26mm)
Weight: 12 oz (341 g)
Enclosure: Anodized aluminum
Approvals: CE

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