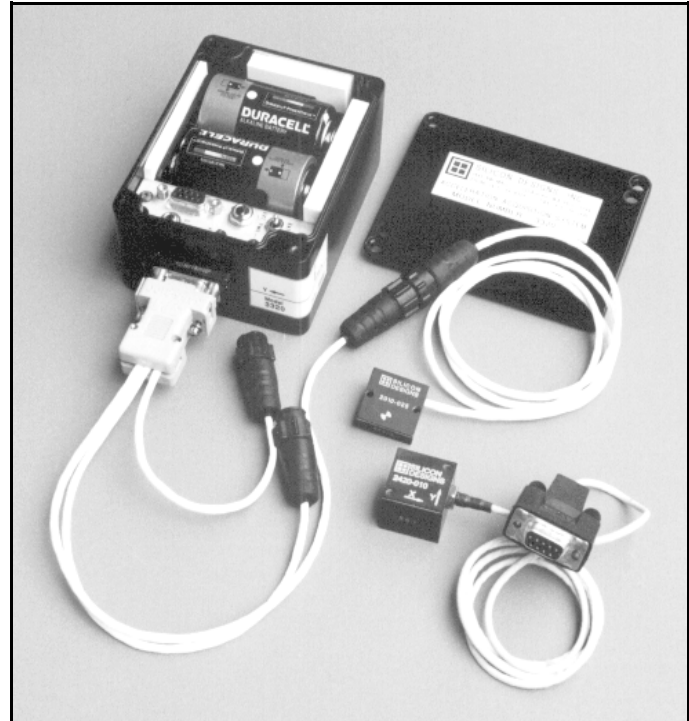




- 1, 2 or 3 Axis Remote Acceleration
- 4 Million Sample Non-Volatile Memory
- Portable Battery Operation
- -20 to +60°C Operation
- Simple PC Based Programming
- Works with Model 2420 & 2010 Accelerometers:
 ±2g, ±5g, ±10g, ±25g, ±50g, ±100g, ±200g.
- Logs Various Data Types:
 - AC and DC Acceleration
 - AC and DC Peak Acceleration
 - Peak Acceleration Events
 - RMS Acceleration
 - AC Velocity
 - AC Peak Velocity
 - RMS Velocity
 - Temperature (inside G-Logger)
- 115.2 kBaud Serial Data Link



DESCRIPTION

The model 3320 is a battery powered, acceleration and thermal data acquisition system which provides sample rates of up to 4000 samples per second on each of the three acceleration axes. A single model 2420 Triaxial Digital Accelerometer Module (priced separately) can be directly connected to the 3320's external D-subminiature 9-pin male connector. Alternatively, up to three model 2010 Single Axis Digital Accelerometer Modules (priced separately) may be connected via a model 3901 Cable Adapter (priced separately). The connection length for either the 2420 or 2010/3901 combination may be extended an additional 150 feet via a D-subminiature 9-pin flat extension cable (a 10 foot cable is included). The 3320 utilizes a RISC microprocessor and a custom ASIC, to automatically log AC/DC accelerations or AC velocities into its on-board flash memory. To reduce the amount of stored data, the user can record peak acceleration or velocity samples for selected time intervals or apply a root mean squared (RMS) algorithm to the data. Multiple windows of contiguous acceleration samples can also be recorded with each window center triggered on its acceleration threshold exceeding event. The 3320 comes in a rugged die cast aluminum case with an overall size of 3.5" x 4.5" x 2.2" and a weight of 29 oz. including batteries. A user's manual and 110VAC to 9VDC plug-in power adapter are included.

OPERATION

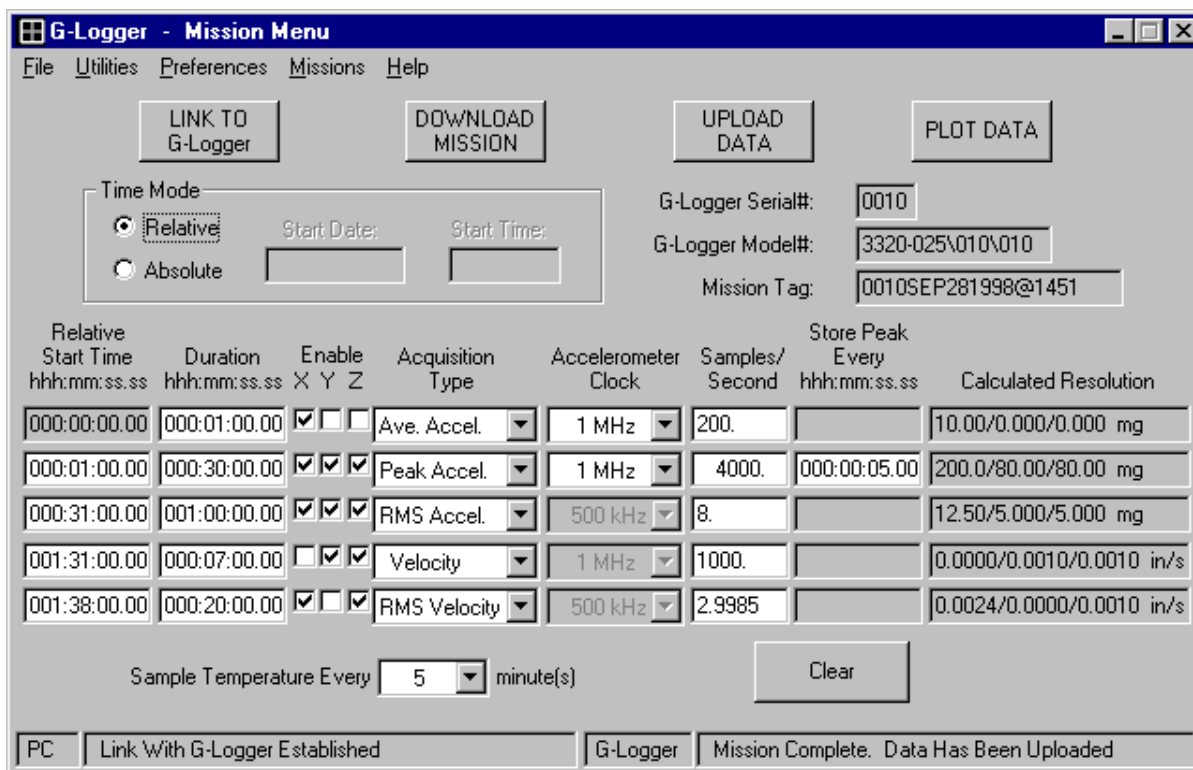
The Model 3320 is easily programmed via menu based 'mission' planning software running under Windows 95/98/NT4.0/2000/XP on your personal computer. After downloading a mission to the 3320, via a supplied RS-232 serial cable connected to your PC's serial port, the 3320 can be disconnected and moved to the data collection site. An AC power adapter is included to power the 3320 during mission programming and data download if battery power needs to be conserved. Missions can be programmed to start immediately, after a delay or at an absolute time/date with sequentially programmable data types and independent time durations. Total data acquisition time (depending upon acquisition rate and battery life) ranges from 300 seconds to 21 days. Battery life ranges from 7 to 21 days, depending upon the acquisition type and sample rate chosen. The data sample rate can be set from 1 to 4000 per second. Case mounting is accomplished via two #8 screws which can be tightened with the cover attached.

APPLICATIONS

SHIPPING DATA RECORDER
CRASH EVENT RECORDER

RACE CAR INSTRUMENTATION
FLIGHT VIBRATION MONITOR

ROTATING MACHINERY MONITOR
AUTOMOTIVE SUSPENSION TESTING



The main menu is a user friendly interface for planning data acquisition 'missions'. Mission parameters are entered as direct numeric values or selected via drop-down submenus. An automatic 'mission tag' based on the serial number, start time and date is attached to each mission for foolproof mission and data identification.

SPECIFICATIONS:

<p>PHYSICAL Case Size 3.5" x 4.5" x 2.2" Weight 29 oz. Including Batteries Mounting 2 holes, # 8 Screws Case Material Die Cast Aluminum</p> <p>ENVIRONMENTAL Operating Temp -20 to+60°C Humidity 0 to 95% RH Max Shock 500g (.5 ms)</p> <p>PC REQUIREMENTS Windows 95 / 98 / NT4.0 / 2000 / XP Serial Port with 16550 or 16550A UART 486 or higher (Pentium recommended) 16Mb RAM (32Mb recommended) 40Mb free hard disk (100Mb recommended)</p> <p>OPERATIONAL Memory 4 Million Samples Serial Data Rate 115.2 k-baud Internal DC Power 2 Alkaline 1.5V D-cells Opt. External Power 4.75-18VDC @ 300mA Accel. Cable Length 13' included</p>	<p>TRIAxIAL SAMPLE RATES / RESOLUTIONS Acceleration: 1/sec (15 bits) to 4000/sec (8 bits) Peak Accel: 1/sec (15 bits) to 4000/sec (8 bits) Peak store min interval = every .01 sec @ any sample rate, Peak store max interval = 1/2 total acquisition time period.</p> <p>Accel Events: 16/sec (15 bits) to 4000/sec (8 bits) 1400 contiguous samples/event (triaxial mode) 4200 contiguous samples/event (single axis mode) Up to 1000 center triggered event windows</p> <p>RMS Accel: 1/sec to 10/sec (12 bits @ all settings).</p> <p>Velocity: 1/sec to 4000/sec (12 bits @ all settings).</p> <p>Peak Velocity: Fixed @ 2000/sec (12 bits). Peak store min interval = every .01 sec, Peak store max interval = 1/2 total acquisition time period.</p> <p>RMS Velocity: 1/sec to 10/sec (12 bits @ all settings).</p> <p>TEMPERATURE SAMPLE RATE / RANGE / RESOLUTION 1/min to 1/hr (-20 to+60°C ±0.5°C)</p>
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SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE