**APPLICATIONS:**
- Spacecraft or satellite over-road transportation
- Rotating machinery diagnostics
- Remote vibration measurements
- Analysis of large civil structures
- Ride & Handling
- Automotive testing
- Aerospace testing
- Vibration testing
- Impact testing

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**SENSOR SNAPSHOT**

**6DOF Triaxial Vibration Recorder**
- Dimensions: 3.95 L X 2.75 W X 1.48 H
- Compact, Portable, 425 grams
- Powerful, user-friendly software

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**WHAT THIS SENSOR DOES FOR YOU:**

The new VibraCorder™ II is an innovative and cost-effective solution for capturing critical 6DOF vibration data, problem solving, and moving product development forward. Model 4401A2 contains a built-in MEMS-based triaxial accelerometer and a MEMS-based triaxial gyroscope capable of measuring and recording acceleration and orientation in three orthogonal directions as well as roll, pitch, and yaw. Easily installed, user-configurable, relay enabled software optimizes data collection while built-in firmware handles acceleration in three axes as well as gyroscope data on the removable micro SD-card. This portable, environmentally sealed vibration recorder thrives in various application environments, delivering optimal static and dynamic 6DOF vibration data.

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**DEVICE FEATURES**

- System Includes:
  1. Model 4401A2 VibraCorder™ II
  2. SanDisk 32 GB Micro SD Card
  3. Software Toolkit
- Built-in firmware handles SD card storage of triaxial acceleration and gyro data
- Software controlled relay for the operation of external components
- Multiple recording regimes: free run, triggered event, auto stop, etc.
- Environmentally sealed, IP65 rating
- Powered through rechargeable LiPo battery or external power
- Low battery indicator with emergency file save feature
- Available sampling rates: 250, 1200, and 4280hz
- Multi-day recording

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**SOFTWARE FEATURES**

- Various data export capabilities: from a simple snapshot (jpeg), to multiple digital formats: .csv, .mat, .tdms, .uff, and .sqlite
- Easy cursor operation for data selection, zoom, and cursor alignment
- Immediate data retrieval from the Micro SD card to the PC
- High pass and low pass filtering
- Simplified version of time synchronous averaging
- Single or double integration
- Anti-Alias Filtering
- Real time stamp
- Oversampling
- Data overlay
- FFT Analysis

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**LEARN MORE**

818-700-7818
www.dytran.com
info@dytran.com

Since its founding, Dytran has built a solid 35+ year industry reputation for trusted, field proven experience in the design and manufacture of sensors for dynamic testing.
## PRODUCT SPECIFICATIONS

### PHYSICAL
- Weight, Max.: 15.8 oz
- Mounting: 4x 10-32 Screws
- Housing Material: Aluminum, Anodized

### INTERNAL SENSOR PERFORMANCE
- Acceleration Range (X, Y, Z Directions): ±16 g
- Frequency Range (Acceleration), -3dB: 0 to 1200 Hz
- Angular Rate Range (X, Y, Z Directions): ±1000 °/sec
- Frequency Range (Gyro), -3dB: 0-140 Hz
- Transverse Sensitivity, Max: 5 %
- Noise, Accelerometers: 0.025 Grms
- Gpeak: ±157 m/s² peak
- °/sec: ±1000 °/sec
- %: 5 %
- m/s² rms: 0.25

### RELAY
- Max switching voltage: 200 VDC
- Maximum current: 0.5 A
- Insulation resistance: >10 GΩ
- Contact resistance: 100 mΩ
- Rated power: 10 W
- Max operation time: 0.5 msec

### ENVIRONMENTAL SPECIFICATIONS
- Operating temperature, Discharging: -4 to +131 °F
- Operating temperature, Charging: 32 to +104 °F
- Seal: IP65
- Max vibration: 200 g
- Max shock: 500 g
- °C: -20 to +55
- °C: 0 to +40
- m/s²: 1962
- m/s²: 4905

### POWER SPECIFICATIONS
- Battery, Capacity: LiPo, 2000mAh
- External power: 8 - 32 VDC
- USB power: 5 VDC
- Charge Time: 8 hours
- Charge current: 250 mA
- Charge indicator: Yes

### TYPICAL SCREEN DISPLAYS
- Acceleration Data Screen
- Gyro Data Screen
- Create Configuration File Screen