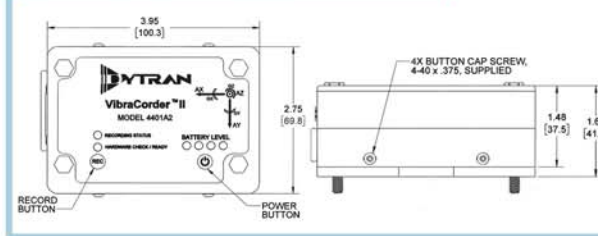


### APPLICATIONS:

- Space craft 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



### SENSOR SNAPSHOT



6DOF Triaxial Vibration Recorder

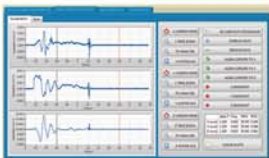
Dimensions: 3.95 L X 2.75 W X 1.48 H

Compact, Portable, 425 grams

Powerful, user-friendly software

### 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.



### 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

### 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

LEARN MORE

818-700-7818  
[www.dytran.com](http://www.dytran.com)  
[info@dytran.com](mailto: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.





MODEL 4401A2

# PRODUCT SPECIFICATIONS

## PHYSICAL

Weight, Max.

Mounting

Housing

Material

## INTERNAL SENSOR PERFORMANCE

Acceleration Range (X, Y, Z Directions)

Frequency Range (Acceleration), -3dB

Angular Rate Range (X, Y, Z Directions)

Frequency Range (Gyro), -3dB

Transverse Sensitivity, Max

Noise, Accelerometers.

## RELAY

Max switching voltage

Maximum current

Insulation resistance

Contact resistance

Rated power

Max operation time

## ENVIRONMENTAL SPECIFICATIONS

Operating temperature, Discharging

Operating temperature, Charging

Seal

Max vibration

Max shock

## POWER SPECIFICATIONS

Battery, Capacity

External power

USB power

Charge Time

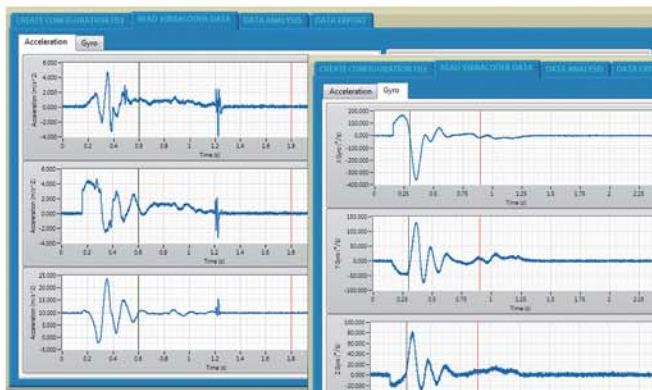
Charge current

Charge indicator

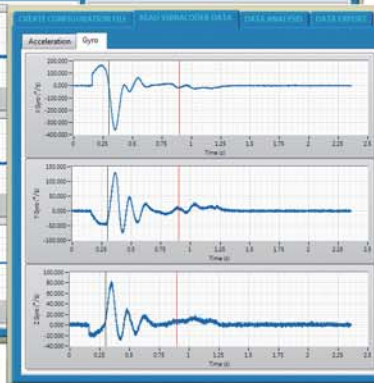
ENGLISH		SI	
15.8	oz	450	grams
4x 10-32 Screws		4x 10-32 Screws	
Aluminum, Anodized		Aluminum, Anodized	
±16	Gpeak	±157	m/s <sup>2</sup> peak
0 to 1200	Hz	0 to 1200	Hz
±1000	°/sec	±1000	°/sec
0-140	Hz	0-140	Hz
5	%	5	%
0.025	Grms	0.25	m/s <sup>2</sup> rms
200	VDC	200	VDC
0.5	A	0.5	A
>10	GΩ	>10	GΩ
100	mΩ	100	mΩ
10	W	10	W
0.5	msec.	0.5	msec
-4 to +131	°F	-20 to +55	°C
32 to +104	°F	0 to +40	°C
IP65		IP65	
200	g	1962	m/s <sup>2</sup>
500	g	4905	m/s <sup>2</sup>
LiPo, 2000mAh		LiPo, 2000mAh	
8 - 32	VDC	8 - 32	VDC
5	VDC	5	VDC
8	hours	8	hours
250	mA	250	mA
Yes		Yes	

# TYPICAL SCREEN DISPLAYS

Acceleration Data Screen



Gyro Data Screen



Create Configuration File Screen

