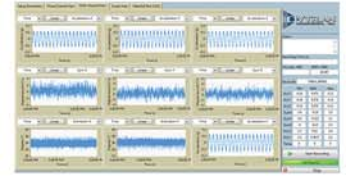
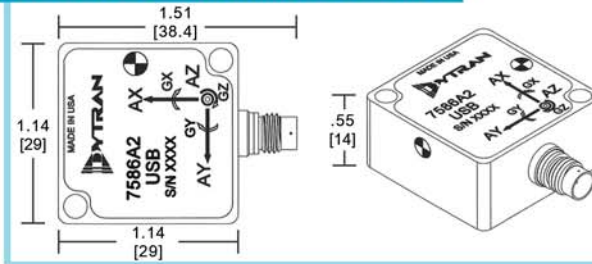


APPLICATIONS:

- Automotive vibration studies
- General purpose vibration measurements
- In-field data collection
- End-of-line testing
- Injury investigation
- Amusement rides
- Safety equipment
- Package testing
- Ride & handling
- Biomechanics
- Head form
- Aerospace
- Robotics
- Sports



SENSOR SNAPSHOT:



6 Degrees of Freedom, DC-MEMS

Eight-pole elliptical anti-aliasing filter

Small, Titanium housing, 25 grams

Rugged, Hermetically Sealed

WHAT THIS SYSTEM DOES FOR YOU:

The VibraScout™ 6DoF is an innovative, cost effective, plug-and-play, portable data acquisition system. The system is made up of 6DoF sensor model 7586A2, easy to install software and a 4-pin to USB cable. Model 7586A2 combines a 3-axis MEMS accelerometer, 3-axis gyro sensor, with a micro-controller that enables measurement of static and dynamic events. The software package supplied with each sensor allows for real time, three directional acceleration acquisition along with angular velocity measurement. It also logs real time data to a binary file for high data compression and long recording durations. This complete data acquisition system eliminates the hassle of having to use a separate data acquisition system, power supply and other ancillary equipment. Simply load the VibraScout™ software on a laptop or tablet and plug the sensor cable into the USB port.

DEVICE FEATURES:

- VibraScout™ 6DoF System Includes:
 1. Model 7586A2 USB accelerometer
 2. Cable 6330A15: 4-pin to USB cable
 3. 9013 Software Toolkit (Windows 10 Compatible)
- Available range: 14g
- 7586A2 sensor is powered via USB port
- Contains an eight-pole elliptical anti-aliasing filter
- Measures X, Y, Z acceleration, along with roll, pitch, yaw
- The standard USB protocol handles all the sensor communications with the PC & provides the following information
 - Storage of the acceleration, gyro, and inclination data
 - Real-time scrolling plots of acceleration data with display of min, max, instant values

SOFTWARE FEATURES:

- VibraScout™ 6DoF can plot recorded data, zoom and select a specific time frame of recorded data for post processing
- Real time display of acceleration and gyro data with 5 seconds on buffer
- Export multiple file types including time data, FFT, PSD and CPB in CSV, JPG, UFF58, and MAT LAB formats
- Three channel, multi-channel, scope (rotating machinery) and real time waterfall plots
- User selectable frequency settings for windowing and frequency range settings
- API available as .NET-compatible for integration into custom test systems
- Plot overlays for channel to channel comparison



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

MODEL 7586A2

PHYSICAL

Weight, Max
Connector [2]
Material

ENGLISH		SI	
0.88	oz	25	grams
1/4-28UNF		1/4-28UNF	
Ti-6Al-4V		Ti-6Al-4V	

ACCELEROMETER PERFORMANCE

Accuracy +/-
Input Range +/-
Frequency Response (3dB), Nominal [3]
Output Noise, Max
Non-Linearity, Max
Cross Axis Sensitivity, Max

ENGLISH		SI	
2	%	2	%
14	g	137.3	m/s ²
0 - 1000	Hz	0 - 1000	Hz
0.01	g RMS	0.098	m/s ²
1	% F.S	1	% F.S
6	%F.S.	6	% F.S.

GYROSCOPE PERFORMANCE

Input Range +/-
Frequency Response +/-3dB
Output Noise, Typical
Non-Linearity, Typical (@ 25C)
Zero-Rate Output +/-

ENGLISH		SI	
6000	°/s	6000	°/s
0-140	Hz	0-140	Hz
10	°/s rms	10	°/s/V Hz
1	%F.S.	1	%F.S.
5	°/s	5	°/s

ENVIRONMENTAL

Maximum Mechanical Shock
Operating Temperature Range
Seal

ENGLISH		SI	
±3000	gpk	±98100	m/s ² peak
-40 to +185	°F	-40 to +85	°C
Hermetic		Hermetic	

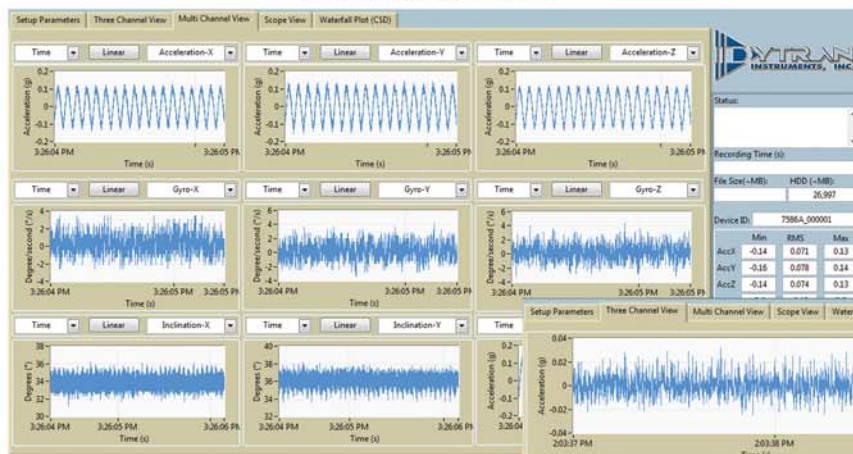
ELECTRICAL

Operating Voltage

ENGLISH		SI	
4.9 to 5.1	VDC	4.9 to 5.1	VDC

TYPICAL SCREEN DISPLAYS

Multi-Channel View



Three Channel View

