

## Handheld Shaker

**MODEL  
5901**

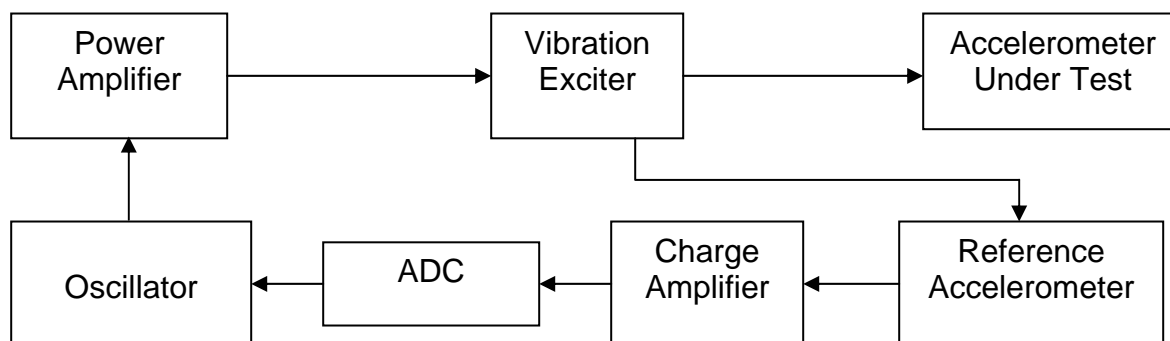
- Self Contained 1g Vibration Reference
- Constant Vibration Amplitude and Frequency
- Calibration / Test of Vibration Measurement Systems
- Calibration / Test of Accelerometers up to 70 grams
- Battery Powered with Automatic Shutdown
- Small Size, Light Weight



### Description

The VIP Sensors Model 5901 Handheld Shaker is a small, light-weight calibration and test system. It consists of an exciter with a built-in reference accelerometer and electronics in a closed-loop configuration that maintains a constant vibration output.

VIP Sensors Model 5901 is very useful and convenient to test/calibrate accelerometers and vibration measurement systems by providing a known constant vibration reference signal of 1 g at 160Hz.



**VIP Sensors Model 5901 Functional Diagram**

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## SPECIFICATIONS

The following performance specifications are at +75°F (+24°C), unless otherwise noted.

### UNITS

#### Output

Acceleration Amplitude	g rms (m/s <sup>2</sup> )	1 (9.8)	±5%
Acceleration Frequency	Hz	160	±1.5% (constant)
Output Waveform		Sine waveform	
Waveform Distortion	%	≤3	

#### Transducer Under Test

Weight	grams	70 maximum	
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#### Power Source

Battery		9V - 150mA, Ni-Cd rechargeable	
Voltage normal display		Green	
Low voltage warning		Orange	
Auto shut-down time	Sec	50 ±10	

#### Environment

Temperature	°C (°F)	Working temperature: 0 to 40 (32 to 104) Storage temperature: -55 to 85 (-67 to 185)	
Humidity		95% R.H Maximum	

#### Physical characteristics

Dimensions	Inch (mm)	2 Ø x 6.3 h (52 Ø x 160 h)	
Weight	grams	approximately 750	
Sensor Mounting		10-32 thread	

#### ACCESSORIES

One 9V rechargeable battery