

ShakerWatch Kit

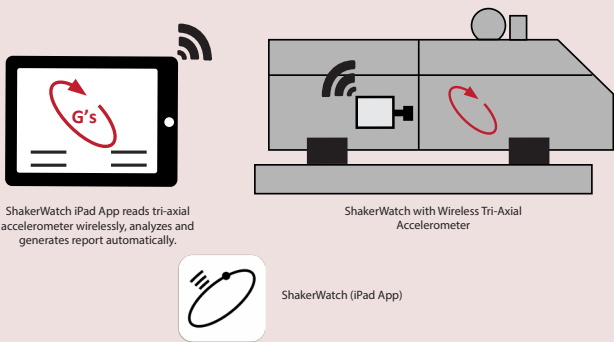
Wireless Vibration Analyzer for Vibratory Screen Shakers



Motionics ShakerWatch is an iPad-based vibration analyzer specialized for vibratory screen equipment and shale shakers. This kit includes a ShakerWatch tri-axial accelerometer with magnetic base that can be attached to any test point on a shaker to measure and analyze vibration motion in three directions.

It packs a precise accelerometer, a powerful onboard processor, and a Bluetooth Low Energy radio module. It communicates with iPad wirelessly allowing motion and vibration test of a vibratory screen shaker in a very quick and safe way. The innovation of ShakerWatch brings more safety and accuracy to the industry. Tests can be done much faster without the need for a deep knowledge of vibration. The wireless technology eliminates wiring, connectors and other complexities to increase safety, ease of use, and durability.

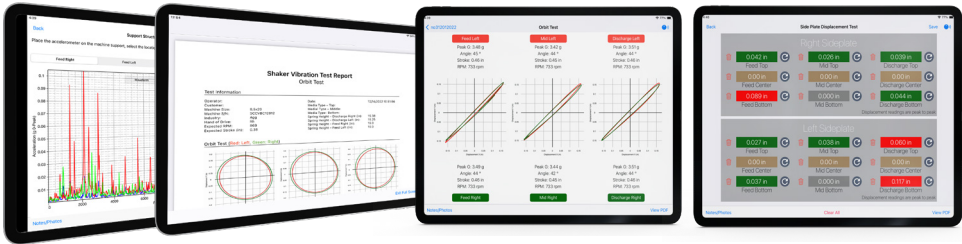
The ShakerWatch iPad App performs X-Y orbit test with auto-calculated RPM, G force, stroke and angle. Bump test, side displacement and support structure vibration tests can be also be performed within the app. The App generates PDF reports automatically with a simple button tap.



Specification	
Accelerometer Type	Tri-axial
Measurement Range	±40g
Frequency Range (±3 dB)	1 – 1000Hz
Built-In Tilt Angle Read	Yes
Sampling Rate	500 to 4000Hz
Data Block Size	256 to 4096 samples
Data Transmission Range	98ft (30m)
Operating Temperature	-4 to 140°F (-20 to 60°C)
Dust/Water Protection	IP66
Battery	Lithium CR2477 3VDC (500 hrs life)
Software Compatibility	iPad

Software Major Features:

- Smart orbit test with auto tilt angle compensation, auto RPM, G force, stroke, and angle calculation.
- Interactive 3-axis vibration waveform with FFT spectrum.
- X-Y orbit plot (G Motion Plot) for 6 points with intelligent plot smoothing feature.
- Bump test with auto major frequency detection.
- Side plate displacement test with color-coded out-of-tolerance judgement and user-configurable thresholds.
- Support structure movement test with xyz and overall velocities for multi points.
- Attach test photos, notes, and overall test information.
- Auto PDF report generation with export and database saving options.



Motionics, LLC
8500 Shoal Creek Blvd Building 4 Suite 209
Austin, TX 78757
www.motionics.com info@motionics.com

The software & hardware can be customized.
Contact Motionics for details.

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