

FLUKE®

**Mechanical Troubleshooting with
Fluke Vibration Tools**

Get Answers Now.

In the world of mechanical maintenance, vibration remains one of the earliest indicators of a machine's health.

Whether it's the rumble of worn bearings or the shaking, shimmying, or thumping of loose, mis-aligned, or unbalanced parts, machines have a tale to tell.

For years, mechanical teams faced a tough choice: complex vibration analysis systems, expensive vibration consultants, or relying on the trained ears of seasoned technicians using stethoscopes or even screwdrivers to divine the problem.

Now you can get fast, accurate and actionable answers with revolutionary vibration testers from Fluke. These tools redefine vibration testing for mechanical troubleshooting and predictive maintenance, and help you:

- Quickly and reliably understand machinery health and condition severity
- Increase efficiency by working against a prioritized list of problems
- Take control of downtime costs by anticipating problems earlier and identifying root causes of recurring failures
- Bridge skill gaps of the maintenance team

Vibration testing has never been easier. Intuitive measurement procedures and automated diagnosis allows all personnel to conduct vibration checks, and perform expert diagnosis with minimal training.





Fluke 810 Vibration Tester: Take a vibration expert along

The Fluke 810 Vibration Tester is the most advanced troubleshooting tool for mechanical maintenance teams who need an answer now. The unique diagnostic technology puts the expertise of a vibration analyst in your hands so you can quickly locate and diagnose common mechanical problems. A simple step-by-step process reports on machine faults the first time measurements are taken, without prior measurement history.

- Unique diagnostic technology identifies and locates the most common mechanical faults: bearings, misalignment, unbalance and looseness
- Fault severity scale helps you prioritize maintenance work
- Repair recommendations advise technicians on corrective action
- Real-time tips and guidance for new users with on-board context-sensitive help
- Laser tachometer for accurate machine running speed promotes confident diagnoses
- Tri-axial accelerometer reduces measurement time by 2/3 over single axis accelerometers
- 4 GB expandable on-board memory provides enough space for your machinery's data
- Viewer PC Software expands data storage and tracking capacity

Use the Fluke 810 to diagnose most common equipment:

Motors

Fans and blowers

Belt and chain drives

Gearboxes

Pumps

Compressors

Spindles



Fluke 805 Vibration Meter: Make go or no-go maintenance decisions with confidence

At last frontline mechanical troubleshooting teams have a highly reliable, repeatable, and accurate way to check bearings and overall vibration. The fast, easy-to-use Fluke 805 Vibration Meter eliminates the confusion of vibration screening so you can make go or no-go maintenance decision with confidence.

- Innovative sensor and sensor tip design ensures accurate measurements for overall vibration measurement, bearing condition and IR temperature
- Reliable and repeatable results at all frequency ranges to cover most machine and component types
- Green and red lights minimize user error by indicating how much pressure to apply when measuring
- Four-level scale helps you quickly assess problem severity
- Crest Factor+ provides reliable bearing assessment using direct sensor tip measurements between 4k Hz and 20k Hz
- Measure temperature with Spot IR Sensor to expand your diagnostic power
- Log up to 3500 measurements then export via USB for trending in Excel
- Listen to bearing tones with audio output
- External accelerometer support for hard-to-reach locations
- Flashlight for making measurements in dimly lit areas
- Large screen with high resolution for easy navigation and viewing

Use the Fluke 805 to check machines in these categories:

Chillers

Fans

Cooling tower drives

Centrifugal pumps

Positive displacement pumps

Air compressors

Blowers

Machine tools

Put Fluke Vibration Tools to Work.



Here are just a few examples of contributions Fluke vibration tools can make to your mechanical troubleshooting and predictive maintenance programs.

Check conditions

Frontline troubleshooting teams can use the Fluke 805 to quickly understand overall machine health and bearing condition. With a single point measurement, technicians can confidently make “go” or “no-go” decisions with a tool they can carry in their toolbelt.



Diagnose problems

The 810 Vibration Tester will help to pinpoint exactly what the problem is (Bearings? Misalignment? Unbalance? Looseness?), where it is and how bad it is, giving maintenance teams a complete picture of the issue and the repairs needed to fix the problem.

For more information, please visit www.fluke.com/mechanical



Fluke. *The Most Trusted Tools in the World.*

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Printed in U.S.A. 5/2012 4178357A_B_EN_N Pub ID 11907-eng

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