

Fluke 805 FC Vibration Meter

Forget the pens, think meter





The Fluke 805 FC is not a vibration pen; it's a meter. A Fluke meter that eliminates the confusion of vibration screening and provides reliable measurements you can trust to make critical go or no-go maintenance decisions. With the Fluke 805 FC, you can identify the strength and severity of vibration and easily track data over time to monitor an asset's condition.

- Innovative sensor design minimizes measurement variations caused by device angle or contact pressure
- Consistent data quality at both low and high frequency ranges
- Four-level severity scale assesses urgency of problems for overall vibration and bearing condition
- Exportable data via USB
- Trending in Microsoft™ Excel using pre-built templates
- Overall vibration measurement (10 Hz to 1000 Hz) for acceleration, velocity and displacement units of measurement for a wide variety of machines
- Crest Factor+ technology provides reliable bearing assessment using direct sensor tip measurements between 4000 Hz and 20000 Hz
- Compare vibration levels with ISO-10816 severity scales and store results to the Fluke Connect™ Cloud
- Fluke Connect™ Share-Live™ video call
- Colored lighting system (green, red) and on-screen comments indicate how much pressure needs to be applied to take measurements
- Temperature measurement with Spot Infrared Sensor increases diagnostic capabilities
- On-board memory holds and saves up to 3500 measurements
- · One-year warranty

Specifications		
Vibration meter	Low frequency range (overall measurement)	10 Hz to 1000 Hz
	High frequency range	4000 Hz to 20000 Hz
	(CF+ measurement)	
	Severity levels	Good, Satisfactory, Unsatisfactory, Unacceptable
	Vibration limit	50 g peak (100 g peak-peak)
	A/D converter	16-bit
	Signal to noise ratio	80 dB
	Sampling rate	Low frequency: 20000 Hz;
		High frequency: 80 000 Hz
	Real-time clock backup	Coin battery
Sensor	Sensitivity	100 mV/g ±10%
	Measurement range	0.01 g to 50 g
	Low frequency range	10 Hz to 1000 Hz
	(overall measurement)	
	High frequency range	4000 Hz to 20000 Hz
	(CF+ measurement)	
	Resolution	0.01 g
	Accuracy	At 100 Hz ±5% of measured value
Infrared thermometer (temperature measurement)	Range	-20° C to 200° C (-4 °F to 392 °F)
	Accuracy	±2° C (4 °F)
	Focal length	Fixed, at ~3.8 cm (1.5 in)
External sensor (Supported, but not provided)	Frequency range	10 Hz to 1000 Hz
	Bias voltage (to supply power)	20 V DC to 22 V DC
	Bias Current (to supply power)	Maximum 5 mA
Firmware	External interfaces	USB 2.0 (full speed) communication
	Data capacity	Database on internal flash memory
	Memory	Up to 3500 measurements
Environmental	IP rating	IP54
	Drop test	1 meter (3.38 ft)
General specifications	Battery type	AA (2) Alkaline or Lithium-ion 2 V DC
	Battery life	250 measurements
	Size (LxWxH) and Weight	25.72 × 16.19 × 9.84 cm (10.13 × 6.38 × 3.875 in), 1.16 kg g (2.55 lb)
	Connectors	USB mini-B 7-pin, stereo audio output jack
		(3.5 mm Audio Plug), external sensor jack
		(SMB connector)

Recommended Accessories



Fluke 805ES
External Assembly Vibration Sensor

Fluke 820-2 LED Stroboscope

The Fluke 820-2 LED Stroboscope is a simple, easy-to-use tool to stop motion for measurement and diagnostic purposes.



Investigate and observe potential mechanism failure with confidence on a variety of machinery, in a wide range of industries, without making physical contact with the machine. The Fluke 820-2 LED Stroboscope is a rugged, compact, portable strobe with high intensity LED head, ideal for stop motion diagnostics, mechanical troubleshooting, and process or product research and development.

- High intensity 7-LED array— 4800 lux @ 6000 FPM/30 cm (flashes per minute)
- High efficiency LED solid-state light source with uniform flash characteristics allow for higher flash rates—30-300000 FPM
- Digital pulse width modulation for exceptionally sharp images at high speeds
- Rugged, durable design utilizes solid-state LEDs with no filaments, gases, hollow cavities, or glass
- Quartz-accuracy control system provides high accuracy — ±(0.02% + 1 digit)
- Multi-line LCD display
- Check the rotating speed of machinery without physical contact or need for reflective tape

Included Accessories

USB Cable, Storage Case, Belt Holster, Quick Reference Guide, CD-ROM (includes MS Excel Template and Documentation) and Two AA Batteries.

Ordering Information

FLUKE-805FC Fluke Connect™ Vibration Meter

FLUKE 805ES External

Vibration Sensor for 805 Vibration Meter

FLK-820-2 LED

Stroboscope

Contact your local distributor for price and availability. fluke.com/wtb



Fluke 810 Vibration Tester

Take a vibration expert along



Fluke 810





Get answers now!

The Fluke 810 Vibration Tester is the most advanced troubleshooting tool for mechanical maintenance teams who need an answer now. It is a unique new kind of troubleshooting tool, engineered to detect and evaluate the most common mechanical problems.

The Fluke 810 Vibration Tester uses a simple step-by-step process to report on machine faults the first time measurements are taken, without prior machine history.

- Easily determine the root cause, location and severity of common mechanical faults
- Efficiently prioritize and plan equipment repair or replacement
- Effectively deploy maintenance resources at the point of greatest impact
- Three-year warranty

Simple 3 Step Process

The Fluke 810 helps you locate and diagnose common mechanical problems and prioritize repair actions in three simple steps:



1. Setup: Vibration testing has never been easier. The Fluke 810 asks for basic machine information you already know, like RPM and horsepower. Its onboard info feature gives you field tips for setting up and taking measurements like a professional.



2. Measure: The Fluke 810 easily fits into your maintenance routine. Use it to quickly troubleshoot problems or monitor machine condition.



3. Diagnose: Fix it right the first time with the press of a button, the Fluke 810 identifies the root cause, its location, and the problem's severity.

Recommended Accessories





810TNon-Contact Precision Laser
Tachometer

810S Vibration Senso

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810QDC

SBP810 Battery Pack



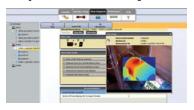
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810SMM Sensor Magnetic Mou

810SMP ensor Mounting Pad (Pack of 10)

Viewer PC Software

- · Store and track your data
- Generate diagnostic reports and track the severity of your machine's condition
- · Import and store JPEG images



Interactive, self-paced training on DVD

Learn more about the basics of vibration and how to fully utilise the features and functionality of the Fluke 810. Fluke has partnered with Mobius Institute, an industry leader in vibration training, to develop an interactive training DVD included with each Fluke 810.

Diagnostic specifications Analysis for Motors, fans, blowers, belts and chain drives, gearboxes, couplings, centrifugal pumps, piston pumps, sliding vane pumps, propeller pumps, screw pumps, rotary thread/gear/lobe pumps, piston compressors, centrifugal compressors, screw compressors, closed coupled machines, spindles Standard faults Unbalance, looseness, misalignment and bearing failures Motor rotational speed range 200 rpm to 12000 rpm Diagnosis details Plain-text diagnosis, fault severity (slight, moderate, serious, extreme), repair details, cited peaks, spectra **Tester specifications** Ingress Protection (IEC 60529) IP54 A/D converter 4 channel, 24 bit Dynamic range 128 dB FFT resolution 800 lines Battery Lithium-ion, rechargeable, 8 hours operating life 2 GB internal + user accessible slot for additional storage Onboard storage capacity **Sensor specifications** Tri-axial accelerometer, 100 mV/g (±5%, 25° C (77° F)) Sensor type **Tachometer specifications**

Laser Diode Class 2

Included Accessories

Tri-axial TEDS Accelerometer,
Accelerometer Magnet Mount,
Accelerometer Mounting Pad Kit
with Adhesive, Accelerometer Quick
Disconnect Cable, Laser Tachometer
and Storage Pouch, Smart Battery Pack
with Cable and Adapters, Shoulder
Strap, Adjustable Hand Strap, Viewer
PC Application Software, Mini-USB
to USB Cable, Getting Started Guide,
Illustrated Quick Reference Guide, User
Manual CD, Instructional Training DVD,
Hard Carrying Case.

Ordering Information

FLUKE-810

Vibration Tester

Tachometer type

Fluke 831 Laser Shaft Alignment Tool

Precise alignment that adapts to your needs







Precision shaft alignment made easy

The Fluke 831 Laser Shaft Alignment Tool is the ideal test tool to precision-align rotating shafts in your facility. If you're still using rulers and dial indicators to ensure your rotating machinery is properly aligned, you could be losing thousands of dollars per year in replacement bearing costs, hours of unnecessary repair time and crippling unplanned downtime, not to mention taking years off your machine's useful life.

- The single-laser measurement technology results in better data accuracy
- The intuitive guided user interface and touch tablet helps you quickly complete machine alignments
- Easy for the novice yet powerful for the skilled technician which means you can cover more of your machines – all the functionality needed on the plant floor like thermal growth, user defined tolerances, etc.

General specifications CPU Processor: Exynos 9810, 2.7GHz,1.7GHz Octa-Core Memory: 4 GB RAM, 64 GB Flash memory Technology: TFT Display Integrated light sensor for automated adjustment of the brightness to the display according to the lighting conditions hence extending battery life. Resolution: 1920 x 1200 Pixel Size: 203.1 mm (8") Wi-Fi: 802.11 a/b/g/n/ac/ax 2.4G+5GHz, HE80, MIMO, 1024-QAM. Connectivity Wireless: 5.0 RFID: NFC Camera Main camera resolution: 13.0 MP. Auto Focus Front camera resolution: 5.0 MP Environmental IP 68: dustproof, submersible 1.5 m protection **Ingress Protection** IP65 (dustproof and water spray resistant), shockproof (IEC 60529) Relative humidity 10% to 90% Temperature range Operation: -20°C to 50°C (-4°F to 122°F) Battery Type: Li-Ion rechargeable battery 3.8 V / 5 Battery 3.8 V / 5050 mAh / 19.2 Wh Operating time: Up to 11 hours Approx. 256 x 149 x 35 mm (10 5/64" x 5 55/64" x 1 3/8") Dimensions/weight (without hand straps) Approx. 710 g (1.6 lbs) Reflector 90° roof prism Type Accuracy (average) > 99% Environmental IP 67 (submersible, dustproof) protection Sensor Measurement principle Coaxial, reflected laser beam LED indicators 1 LED for laser beam status and battery status **Power supply Battery** Lithium-Ion rechargeable battery 3.7 V / 5 Wh Operating time 10 hours (continuous use) Charging time Using charger - 2.5 h for up to 90% 3.5 h for up to 100% Using USB port – 3 h for up to 90% 4 h for up to 100%

Recommended Accessories



Recommended Kits



Fluke 830/SHIMS Precision Alignment Kit

Evaluate Alignment in 3 Simple Steps



1. Dimensions



2. Measure



3. Results

Included Accessories

Sensor laser, reflector prism, chain-type mounting bracket with 150 mm support posts (2x), 300 mm support post (4x), lens cleaning cloth, USB sensor cable, USB PC cable, USB drive, USB drive cable, tape measure, power adapter (2x), quick reference guide and safety information sheet, carrying case

Ordering Information

FLK-831 Laser Shaft Alignment Tool

Contact your local distributor for price and availability. fluke.com/wtb

