

TECHNICAL DATA

Fluke 810 Vibration Tester



Features and benefits

- On-board identification and location of the most common mechanical faults (bearings, misalignment, unbalance, looseness) focus maintenance efforts on root cause, reducing unplanned downtime
- Overall vibration level allows you to quickly assess overall machine health directly from the diagnosis screen
- Fault severity scale with four severity levels help you prioritize maintenance work
- Repair recommendations advise technicians on corrective action
- Detailed diagnostic reports and spectral diagrams help confirm data quality, and narrow down the root cause of failures
- **On-board context sensitive** help provide real-time tips and guidance to new users
- Flexible machine speed configurations gives the ability to test a broad range of assets including belt drives, gear boxes, and bevel gears
- 2 GB expandable on-board memory provides enough space for your machinery's data
- Self-test function ensures optimal performance and more time on the job
- Laser tachometer for accurate machine running speed promotes confident diagnoses
- Tri-axial accelerometer reduces measurement time by 2/3 over single axis accelerometers
- Viewer PC Software expands data storage and tracking capacity

The most advanced troubleshooting tool for mechanical maintenance teams who need an answer now. The unique diagnostic technology helps you quickly identify and prioritize mechanical problems, putting the expertise of a vibration analyst in your hands.

You take pride in your facility, your team, and your work. You do what it takes to keep things up and running, but sometimes there is not enough time or resources to keep up with the workload, let alone be proactive about mechanical maintenance. The Fluke 810 Vibration Tester puts you one step ahead by coupling a powerful diagnostic engine with a simple step-by-step process to report on specific machine faults and their severity the first time measurements are taken, without prior measurement history. Overall vibration measurements and spectral diagrams give technicians the ability to quickly asses overall machine health, while enhanced reporting and actionable recommendations give you the confidence you need to address critical problems first.

Use the Fluke 810 Vibration Tester to:

- Troubleshoot problem equipment and understand the root cause of failure
- Survey equipment before and after planned maintenance and confirm the repair
- Commission new equipment and ensure proper installation
- Provide quantifiable proof of equipment condition and drive investment in repair or replacement
- Prioritize and plan repair activities and operate more efficiently
- Anticipate equipment failures before they happen and take control of spare parts inventories
- Train new or less-experienced technicians and build confidence and skill across the team





Tester specifications

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Operating temperature0 °C to 50 °C (32 °F to 122 °F)Storage temperature-20 °C to 60 °C (-4 °F to 140 °F)Operating humidity10 % to 95 % RH (non-condensing)Agency approvalsCHINA ROHS, CSA, CE, C TICK, WEEE	Operating temperature0 °C to 50 °C (32 °F to 122 °F)Storage temperature-20 °C to 60 °C (-4 °F to 140 °F)Operating humidity10 % to 95 % RH (non-condensing)Agency approvalsCHINA ROHS, CSA, CE, C TICK, WEEE	Warranty	Three-years		
Storage temperature-20 °C to 60 °C (-4 °F to 140 °F)Operating humidity10 % to 95 % RH (non-condensing)Agency approvalsCHINA RoHS, CSA, CE, C TICK, WEEE	Storage temperature-20 °C to 60 °C (-4 °F to 140 °F)Operating humidity10 % to 95 % RH (non-condensing)Agency approvalsCHINA RoHS, CSA, CE, C TICK, WEEE	Environmental			
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	Electromagnetic compatibility EN 61326-1:2006, EN 61010:1:2001 2nd ed.	Agency approvals	CHINA RoHS, CSA, CE, C TICK, WEEE		
Electromagnetic compatibility EN 61326-1:2006, EN 61010:1:2001 2nd ed.		Electromagnetic compatibility	EN 61326-1:2006, EN 61010:1:2001 2nd ed.		



Sensor specifications

Sensor specifications			
Sensor type	Accelerometer		
Sensitivity	100 mV/g (± 5 %, 25 °C)		
Acceleration range	80 g peak		
Amplitude nonlinearity	1 %		
Frequency response	Z	2 to 7,000 Hz ± 3dB	
	Х, Ү	2 to 5,000 Hz ± 3dB	
Power requirement (IEPE)	18 V dc to 30 V dc, 2 mA to 10 mA		
Bias output voltage	12 V dc		
Grounding	Case grounded		
Sensing element design	PZT ceramic / shear		
Case material	316L stainless steel		
Mounting	10-32 captive socket head screw, 2-pole	rare earth magnet (48 lb pull strength)	
Output connector	4-Pin, M12		
Mating connector	M12 - F4D		
Non-volatile memory	TEDS 1451.4 compatible		
Vibration limit	500 g peak		
Shock limit	5000 g peak		
Electromagnetic sensitivity, equivalent g	100 µg/gauss		
Sealing	Hermetic		
Temperature range	-50 °C to 120 °C (-58 °F to 248 °F) ± 7 %		
Warranty	One-year		
Tachometer specifications			
Dimensions (DxW)	2.86 cm x 12.19 cm (1.125 in x 4.80 in)		
Weight	96 g (3.4 oz) with cable		
Power	Powered by 810 Vibration Tester		
Detection	Laser Diode Class 2		
Range	6.0 rpm to 99,999 rpm		
Accuracy	6.0 rpm to 5999.9 rpm	± 0.01 % and ± 1 digit	
	5999.9 rpm to 99999 rpm	\pm 0.05 % and \pm 1 digit	
Resolution	0.1 rpm		
Effective range	1 cm to 100 cm (0.4 in to 39.27 in)		
Response time	1 second (> 60 rpm)		
Controls	Measure on/off transparent button		
Interface	6 Pin Mini DIN		
Cable length	50 cm (19.586 in)		
Warranty	One-year		
Tachometer accessories	Reflective tape:1.5 cm x 52.5 cm (0.59 in	n × 20.67 in)	
Viewer PC Software			
Minimum hardware requirements	1 GB RAM		
Operating system requirements	Windows XP, Vista, Windows 7		





Viewer PC Software

The Fluke 810 Vibration Tester includes Viewer PC software, expanding your data storage and tracking capability. With Viewer you can:

- Generate diagnostic reports and track the severity of your machine's condition
- Create machine setups with the convenience of your keyboard and mouse, and transfer the data to your 810 Vibration Tester
- View diagnosis and vibration spectra in greater detail
- Import and store JPEG images and Fluke IS2 thermal images for a more complete view of your machine's condition

Ordering information

Fluke-810 Vibration Tester

Included equipment

Vibration Tester with diagnostic technology, 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 software, mini-USB to USB cable, getting started guide, illustrated quick reference guide, users manual CD-ROM, training DVD, and hard carrying case.



Fluke. Keeping your world up and running.®

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Industry-leading training...on your terms

The Fluke 810 Vibration Tester takes the guesswork out of diagnosing the most common mechanical problems, but a better understanding of vibration and its impact on your equipment will help you or your team be more aware of issues that may come up in the future. Fluke has partnered with Mobius Institute, an industry leader in vibration training, to provide you with a self-paced DVD training program using award-winning Mobius Institute interactive training tools. This DVD is available with purchase and will help you learn more about the basics of vibration and how to fully utilize the features and functionality of the Fluke 810 Vibration Tester.