

TECHNICAL DATA

Fluke 802EN Vibration Meter



Key features

- Three test modes to meet complex test environment in industrial field
- High repeatability to ensure accuracy of continuous testing
- One-button measurement to get assessment result in 6 seconds
- 99 sets of data storage, review in real-time

Product overview: Fluke 802EN Vibration Meter

Fluke 802EN Vibration Meter

One-button vibration assessment of mechanical equipment

Specifications: Fluke 802EN Vibration Meter

Inteal Piezoelectric Accelerometer		
Sensitivity (typical)	10.00 mV / m/s ² ± 5% (1 g = 9.8 m/s ²)	
Measurement		



Acceleration	Range	0.1 m/s² to 199.9 m/s² peak (rms □2)	
	Resolution	0.1 m/s ²	
	Accuracy	± (5 % + 2 dgt) (LO: 10 Hz to 1 kHz)	
		± (10 % + 5 dgt) (HI: 1 kHz to 10 kHz)	
Velocity	Range	0.1 mm/s to 199.9 mm/s rms	
	Resolution	0.1 mm/s	
	Accuracy	± (5% + 2 dgt) (10 Hz to 1 kHz)	
Displacement	Range	0.001 mm to 1.999 mm peak-peak (rms 2Π2)	
	Resolution	0.001 mm	
	Accuracy	± (5 % +2 dgt) (10 Hz to 1 kHz)	
Piezoelectrical Accelerometer			
Typical frequency response	10 Hz to 15 kHz		
Amplitude Units			
Acceleration	g, m/s²		
Velocity	mm/s		
Displacement	mm		
Exteal Piezoelectrical Accelerometer			
DC bias voltage	6 V dc to 7 V dc		
DC bias current	3.5 mA		
Note: Other specifications are the same as those of the inteal piezoelectric accelerometers			
Baery	2 AAA, IEC LR03		
Baery life	25 hrs for measurement		
Dimensions (L x W x H)	24.1 x 7.1 x 5.8 cm		
Weight	220 g		
Audio port	Stereo audio output jack (3.5 mm Audio Plug)		
Exteal sensor port	M12 plug		
Environment			
Operating temperature	-10 °C to 50 °C		
Storage temperature	-30 °C to 60 °C		
Operating humidity	30% to 90% RH (non-condensing)		
Operating altitude	2,000 m		
Storage altitude	12,000 m		
Ingress Protection	IP 40		
Vibration limit	500.0 m/s² peak		
Drop test	1 m		



Electromagnetic Compatibility (EMC)

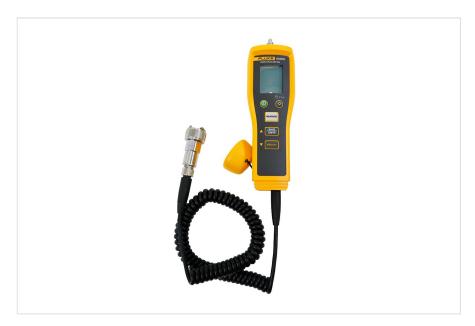
Inteational IEC 61326-1: Portable, Industrial Electromagnetic Environment; CISPR 11: Group 1, Class A

Group 1: Equipment has intentionally generated and/or uses conductively-coupled radio frequency energy that is necessary for the inteal function of the equipment itself.

Class A: Equipment is suitable for use in all establishments other than domestic and those directly connected to a low-voltage power supply network that supplies buildings used for domestic purposes. There may be potential difficulties in ensuring electromagnetic compatibility in other environments due to conducted and radiated disturbances. Emissions that exceed the levels required by CISPR 11 can occur when the equipment is connected to a test object.



Ordering information



FLUKE-802EN



$\textbf{Fluke}. \ \textit{Keeping your world up and running.} \\ \textbf{@}$

Fluke Corporation

PO Box 9090, Everett, WA 98206 U.S.A.

For more information call:

In the U.S.A. (800) 443-5853 In Europe/M-East/Africa +31 (0)40 267 5100 In Canada (800)-36-FLUKE From other countries +1 (425) 446-5500 www.fluke.com/en-th

©2025 Fluke Corporation. Specifications subject to change without notice. 05/2025

Modification of this document is not permitted without written permission from Fluke Corporation.