

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

Internal Piezoelectric Accelerometer

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

Acceleration	Range	0.1 m/s ² to 199.9 m/s ² 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 2√2)
	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/s ²	
Velocity	mm/s	
Displacement	mm	
External 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 internal piezoelectric accelerometers		
Battery	2 AAA, IEC LR03	
Battery 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)	
External 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/s ² peak	
Drop test	1 m	



Electromagnetic Compatibility (EMC)	International 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 internal 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

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