

**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 <sup>2</sup> ± 5% (1 g = 9.8 m/s <sup>2</sup> )	
Measurement		



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



Electromagnetic Compatibility (EMC)

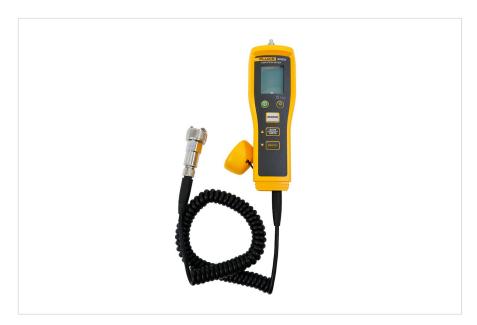
International IEC 61326-1: Portable, Industrial Electromagnetic Environment; CISPR 11: Group 1, Class A

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: Équipment 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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