

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/s² ± 5% (1 g = 9.8 m/s²)

Measurement

| | | |
|---|--|---|
| Acceleration | Range | 0.1 m/s ² to 199.9 m/s ² peak (rms $\sqrt{2}$) |
| | Resolution | 0.1 m/s ² |
| | Accuracy | $\pm (5\% + 2 \text{ dgt})$ (LO: 10 Hz to 1 kHz) |
| $\pm (10\% + 5 \text{ dgt})$ (HI: 1 kHz to 10 kHz) | | |
| Velocity | Range | 0.1 mm/s to 199.9 mm/s rms |
| | Resolution | 0.1 mm/s |
| | Accuracy | $\pm (5\% + 2 \text{ dgt})$ (10 Hz to 1 kHz) |
| Displacement | Range | 0.001 mm to 1.999 mm peak-peak (rms $2\sqrt{2}$) |
| | Resolution | 0.001 mm |
| | Accuracy | $\pm (5\% + 2 \text{ dgt})$ (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 | |



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| 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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