

# **Vibration Meter**

## > Fluke 805 Vibration Meter

The Fluke 805 Vibration Meter is the most reliable vibration screening device available for frontline mechanical troubleshooting teams that need repeatable, severity-scaled readings of overall vibration and bearing condition.



#### 1. Fluke 805 Vibration Meter



### Key Features

- Reliable, repeatable, accurate device for checking bearings and overall vibration
- Features innovative sensor design that minimizes measurement variations caused by device angle or contact pressure
- Provides consistent data quality at both low and high frequency ranges
- Offers four-level severity scale to assess urgency of problems and bearing condition

# • Specifications: Fluke 805 FC Vibration Meter

Specifications	
Low frequency range (overall measurement)	10 Hz to 1,000 Hz
High frequency range (CF+ measurement)	4,000 Hz to 20,000 Hz
Severity levels	Good, satisfactory, unsatisfactory, unacceptable
Vibration limit	50 g peak (100 g peak-peak)
A/D converter	16-bit
Signal to noise ratio	80 dB



Sampling rate	Low frequency: 20,000 Hz High frequency: 80,000 Hz	
Real time clock backup	Coin battery	
Sensor		
Sensitivity	100 mV g ± 10%	
Measurement range	0.01 g to 50 g	
Low frequency range (overall measurement)	10 Hz to 1,000 Hz	
High frequency range	4,000 Hz to 20,000 Hz	
Resolution	0.01 g	
Accuracy	At 100 Hz ± 5% of measured value	
Amplitude Units		
Acceleration	g, m/sec²	
Velocity	in/sec, mm/sec	
Displacement	mils, mm	
Infrared Thermometer (Temperature Measurement)		
Range	-20 °C to 200 °C (-4 °F to 392 °F)	
Accuracy	±2 °C (4 °F)	



Focal length	Fixed, at ~3.8 cm (1.5")	
External Sensor		
Note: Fluke supports but does not provide external sensors		
Frequency range	10 Hz to 1,000 Hz	
Bias voltage (to supply power)	20 V dc to 22 V dc	
Bias current (to supply power)	Maximum 5 mA	
Firmware		
External interfaces	USB 2.0 (full speed) communication	
Data capacity	Database on internal flash memory	
Upgrade	Through USB	
Memory	Up to 3,500 measurements	
Radiated Emission		
Electrostatic discharge: burst	Standard EN 61000-4-2	
Electromagnetic interference	Standard EN 61000-4-3	
RE	Standard CISPR 11, Class A	
Environmental		
Operating temperature	-20 °C to 50 °C (-4 °F to 122 °F)	



Storage temperature	-30 °C to 80 °C (-22 °F to 176 °F)
Operating humidity	10% to 95% RH (non-condensing)
Operating/storage altitude	Sea level to 3,048 meters (10,000 feet)
IP rating	IP54
Vibration limit	500g peak
Drop test	1 meter
General Specifications	
General Specifications	
General Specifications  Battery type	AA (2) Lithium Iron Disulfide
	AA (2) Lithium Iron Disulfide  250 measurements
Battery type	
Battery type  Battery life	250 measurements  24.1 cm x 7.1 cm x 5.8 cm