

Fluke 805 Vibration Meter Tech Specs

Vibration Meter		
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 $\pm 10\%$	
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 $\pm 5\%$ of measured value	
Amplitude Units		
Acceleration	g, m/sec ²	
Velocity	in/sec, mm/sec	
Displacement	mils, mm	
Infrared Thermometer (Temperature Measurement)		
Range	-20°C to 200°C (-4°F to 392°F)	
Accuracy	$\pm 2^\circ\text{C}$ (4°F)	
Focal length	Fixed, at ~3.8 cm (1.5 in)	
External sensor		
Fluke supports but does not provide external sensors		
Frequency range	10 Hz to 1,000 Hz	
Bias voltage (to supply power)	20 VDC to 22 VDC	
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 500 g peak

Drop test 1 meter

General Specifications

Battery type AA (2) Lithium Iron Disulfide

Battery life 250 measurements

Size (L x W x H) 24.1 x 7.1 x 5.8 cm (9.5 x 2.8 x 2.3 in)

Weight 0.40 kg (0.89 lb)

Connectors USB mini-B 7-pin, stereo audio output jack (3.5 mm Audio Plug), external sensor jack (SMB connector)