

Fluke 805 Vibration Meter

Technical Data

The reliable, repeatable, accurate way to check bearings and overall vibration.

Make go or no-go maintenance decisions with confidence. 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.

What makes the Fluke 805 the most reliable vibration screening device available?

- Innovative sensor design minimizes measurement variations caused by device angle or contact pressure
- Consistent data quality at both low and high frequency ranges
- Four-level severity scale assesses urgency of problems for overall vibration and bearing condition
- Exportable data via USB
- Trending in Microsoft® Excel using built-in templates
- Overall vibration measurement (10 Hz to 1,000 Hz) for acceleration, velocity and displacement units of measurement for a wide variety of machines
- Crest Factor+ technology provides reliable bearing assessment using direct sensor tip measurements between 4,000 Hz and 20,000 Hz
- Colored lighting system (green, red) and on-screen comments indicate how much pressure needs to be applied to take measurements
- Temperature measurement with Spot IR Sensor increases diagnostic capabilities
- On-board memory holds and saves up to 3,500 measurements
- Audio output for listening to bearing tones directly
- External accelerometer support for hard to reach locations
- Flashlight for viewing measurement locations in dark areas
- Large screen with high resolution for easy navigation and viewing





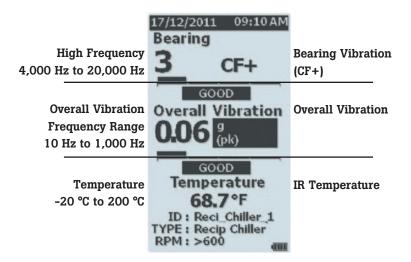
What is Crest Factor +?

Fluke 805 with Crest Factor + takes the confusion out of bearing assessment

The original Crest Factor is used by vibration analysts to identify bearing faults. It is defined as the ratio of the peak value/RMS value of a time domain vibration signal.

A key limitation of using Crest Factor to identify bearing faults is that the Crest Factor does not increase linearly as the bearing degrades. In fact, the Crest Factor can actually decrease as a bearing nears catastrophic failure due to large RMS values.

In order to overcome this limitation, Fluke uses a proprietary algorithm known as Crest Factor + (CF+). CF+ values range from 1 to 16. As the bearing condition worsens, the CF+ value increases. To keep things simple, Fluke has also included a four-level severity scale that identifies the bearing health as Good, Satisfactory, Unsatisfactory or Unacceptable.



Exporting and Trending with the 805

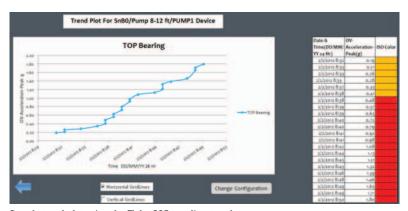
Export and Trend in Excel

Trending, or repeated vibration measurements kept in a spreadsheet over time, is the best method to track machine health. With 805 you can easily:

- Export your result to Excel through USB connection
- Trend the readings with the pre-built Excel templates and plot graphs
- Compare the overall vibration readings to ISO Standards (10816-1, 10816-3, 10816-7)

Import measurements from the 805 Vibration Meter to an Excel template on your PC in order to trend the bearing parameters: overall vibration, CF+, and temperature. Looking at just the number alone for the overall vibration or temperature might not be of much benefit to the operator or technician if they don't know what the number means. The user may not know what is normal or what indicates a problem.

If measurements taken on the operator rounds are easily loaded into Excel, then the trend will show patterns of something that is becoming abnormal. The user can now see a clear picture of the changing bearing condition and deteriorating health of the machine.



Sample trend plot using the Fluke 805 trending template.



Use the Fluke 805 Vibration Meter to check these machine categories:

Chiller (refrigeration)

- Reciprocating (Open motor and compressor separate)
- Reciprocating (Hermetic motor and compressor)
- Centrifugal (Hermetic or Open Motor

Fans

- Belt-driven Fans 1800 to 3600 RPM
- Belt-driven fans 600 to 1799 RPM
- General direct drive fans (direct coupled)
- Vacuum blowers (belt or direct drive)
- Large forced draft fans (fluid film brgs.)
- · Large induced draft fans (fluid film brgs.)
- Shaft-mounted intergral fan (extended motor shaft)
- · Axial flow fans (belt or direct drive)

Cooling tower drives

- Long, hollow drive shaft (motor)
- Belt drive (motor and fan all arrangements)
- Direct drive (motor and fan all arrangemetns

Centrifugal Pumps

Note: height is measured from grade to top motor bearing

- Vertical pumps (12' to 20' height)
- Vertical pumps (8' to 12' height)
- Vertical pumps (5' to 8' height)
- Vertical pumps (0' to 5' height)
- Horizontal centrifugal end suction pumps direct coupled

- Horizontal centrifugal double suction pumps direct coupled
- Boiler feed pumps (turbine or motor driven)

Positive Displacement Pumps

- Positive displacement horizontal piston pumps (under load)
- Positive displacement horizontal gear pumps (under load)

Air compressors

- Reciprocating
- · Rotary screw
- · Centrifugal with or without external gearbox
- Centrifugal internal gear (axial meas.)
- Centrifugal internal gear (radial meas.)

Blowers

- Lobe-type rotary blowers (belt or direct drive)
- Multi-stage centrifugal blowers (direct drive)

Generic gearboxes (rolling element bearings)

Single stage gearbox

Machine tools

- Motor
- · Gearbox input
- Gearbox output
- Spindles roughing operations
- Spindles machine finishing
- Spindles critical finishing





Technical specifications

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 Calibration Factory calibration required 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	Vibration meter		
CF+ measurement Good, Satisfactory, Unsatisfactory, Unacceptable		10 Hz to 1,000 Hz	
Unacceptable		4,000 Hz to 20,000 Hz	
A/D converter Signal to noise ratio 80 dB Sampling rate Low frequency Real time clock backup Sensor Sensitivity 100 mV / g ± 10% Measurement range Low frequency range (overall measurement) High frequency range (CF+ measurement) Resolution Accuracy At 100 Hz to 20,000 Hz Ar 100 Hz to 20,000 Hz Ar 100 Hz ± 5 % of measured value Amplitude units Acceleration g, m/sec² Velocity in/sec, mm/sec Displacement Infrared thermometer (temperature measurement) Range -20 °C to 200 °C (-4 °F to 392 °F) Accuracy Accuracy £ 2 °C (4 °F) Focal length External sensor Note: Pluke supports, but does not provide, external sensors. Frequency range 10 Hz to 1,000 Hz 20 V dc to 22 V dc Bias Current (to supply power) Bias Current (to supply power) Bata capacity Database on internal flash memory Upgrade Memory Radiated emission Electrostatic discharge: Burst Electromagnetic interference Standard EN 61000-4-3	Severity levels		
Signal to noise ratio Sampling rate Low frequency High frequency Sensor Sensitivity Measurement range Low frequency range (overall measurement) High frequency range (or + measurement) Resolution Accuracy At 100 Hz to 20,000 Hz Accuracy At 100 Hz ± 5 % of measured value Amplitude units Acceleration g, m/sec² Velocity in/sec, mm/sec Displacement Infrared thermometer (temperature measurement) Range -20 °C to 200 °C (-4 °F to 392 °F) Accuracy ±2 °C (4 °F) Focal length External sensor Note: Fluke supports, but does not provide, external sensors. Frequency range 10 Hz to 1,000 Hz Bias voltage (to supply power) Bias voltage (to supply power) Bias Current (to supply power) Firmware Calibration Factory calibration required 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 Electromagnetic interference Standard EN 61000-4-3	Vibration limit	50 g peak (100 g peak-peak)	
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) High frequency range (CF+ measurement) 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) Patternal to 1,000 Hz Bias Current (to supply power) Maximum 5 mA Firmware Calibration Factory calibration required 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	A/D converter	16-bit	
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 10 Hz to 1,000 Hz (overall measurement) High frequency range 4,000 Hz to 20,000 Hz (CF+ measurement) 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 Calibration Factory calibration required 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	Signal to noise ratio	80 dB	
High frequency 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) High frequency range (CF+ measurement) Resolution 0.01 g Accuracy At 100 Hz ± 5 % of measured value Amplitude units Acceleration g, m/sec² Velocity in/sec, mm/sec Displacement 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) Bias Current (to supply power) Maximum 5 mA Firmware Calibration Factory calibration required 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 Electromagnetic interference Standard EN 61000-4-3	Sampling rate		
Real time clock backup Sensor Sensitivity 100 mV / g ± 10% Measurement range 0.01 g to 50 g Low frequency range (overall measurement) High frequency range (CF+ measurement) Resolution Accuracy At 100 Hz to 20,000 Hz Coulty In/sec, mm/sec Displacement Infrared thermometer (temperature measurement) Range -20 °C to 200 °C (-4 °F to 392 °F) Accuracy ± 2 °C (4 °F) Focal length External sensor Note: Fluke supports, but does not provide, external sensors. Frequency range 10 Hz to 1,000 Hz Bias Current (to supply power) Bias Current (to supply power) Firmware Calibration Factory calibration required External interfaces USB 2.0 (full speed) communication Data capacity Database on internal flash memory Upgrade Memory Up to 3,500 measurements Radiated emission Electrostatic discharge: Burst Electromagnetic interference Standard EN 61000-4-2 Electromagnetic interference Standard EN 61000-4-3	Low frequency	20,000 Hz	
Sensor Sensitivity 100 mV / g ± 10% Measurement range 0.01 g to 50 g Low frequency range (overall measurement) High frequency range (CF+ measurement) 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 Calibration Factory calibration required 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	High frequency	80,000 Hz	
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Measurement range	Sensor		
Low frequency range (overall measurement) High frequency range (CF+ measurement) Resolution Accuracy At 100 Hz ± 5 % of measured value Amplitude units Acceleration G, m/sec² Velocity Displacement Infrared thermometer (temperature measurement) Range -20 °C to 200 °C (-4 °F to 392 °F) Accuracy 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 At 100 Hz Firmware Calibration Factory calibration required External interfaces USB 2.0 (full speed) communication Data capacity Database on internal flash memory Upgrade Memory Up to 3,500 measurements Radiated emission Electrostatic discharge: Burst Standard EN 61000-4-2 Electromagnetic interference Standard EN 61000-4-3	Sensitivity	100 mV / g ± 10%	
(overall measurement) High frequency range (CF+ measurement) Resolution O.01 g Accuracy At 100 Hz ± 5 % of measured value Amplitude units Acceleration Q, m/sec² in/sec, mm/sec Displacement 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) Bias voltage (to supply power) Bias Current (to supply power) Firmware Calibration Factory calibration required 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 Electromagnetic interference Standard EN 61000-4-3	Measurement range	0.01 g to 50 g	
CF+ measurement		10 Hz to 1,000 Hz	
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) Bias Current (to supply power) Maximum 5 mA Firmware Calibration Factory calibration required External interfaces USB 2.0 (full speed) communication Data capacity Database on internal flash memory Upgrade Memory Up to 3,500 measurements Radiated emission Electrostatic discharge: Burst Standard EN 61000-4-2 Electromagnetic interference Standard EN 61000-4-3		4,000 Hz to 20,000 Hz	
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Displacement 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) Bias Current (to supply power) Maximum 5 mA Firmware Calibration Factory calibration required 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 Electromagnetic interference Standard EN 61000-4-3	Acceleration	g, m/sec ²	
Infrared thermometer (temperature measurement) Range	Velocity	in/sec, mm/sec	
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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 Electromagnetic interference Standard EN 61000-4-3	Calibration	Factory calibration required	
Data capacity Upgrade through USB Memory Up to 3,500 measurements Radiated emission Electrostatic discharge: Burst Electromagnetic interference Standard EN 61000-4-3	External interfaces		
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	Data capacity		
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Electromagnetic interference Standard EN 61000-4-3		Standard EN 61000-4-2	
ů .	-	Standard EN 61000-4-3	
ILL DIGITUATU CIDETI I I, CIASS A	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) Alkaline or Lithium-ion 2 V dc	
Battery life	250 measurements	
Size (L x W x H)	25.72 cm x 16.19 cm x 9.84 cm (10.13 in x 6.38 in x 3.875 in)	
Weight	1.16 kg (2.55 lb)	
Connectors	USB mini-B 7-pin, stereo audio output jack (3.5 mm Audio Plug), external sensor jack (SMB connector)	

Ordering information

Fluke-805 Vibration Meter

Includes: 805 Vibration Meter, USB cable, storage case, belt holster, quick reference guide, CD-ROM (includes MS Excel template and documentation), and two AA batteries

> Fluke. Keeping your world up and running.®

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From other countries +1 (425) 446-5500 or Fax +1 (425) 446-5116

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