

# Vibration Testing Equipment; Calibration Policies

## Mechanical testers and meters

Mechanical testers and meters do not have the same calibration needs or requirements as electrical test equipment. Fluke engineers designed the Fluke 810 and 805 in a way to minimize the drift of the analog components over time, so the device does not go off the calibration limits. Fluke provides a performance check to insure the device is performing to factory specifications. This performance test is available on a schedule that the user deems as appropriate to make sure that the device is providing accurate and reliable readings.

## Vibration sensors

Vibration sensors are accelerometers that consist of piezoelectric crystals. Accelerometers are designed to last for ten-plus years. If they are dropped and broken, they will not work when the vibration tester powers up the sensor prior to performing a measurement and the user will receive an error message. A calibration check is available on a schedule that the user deems appropriate to make sure the sensor is providing accurate and reliable readings.



### Fluke 810 Vibration Tester

It is suggested (but not required) that the 810 be checked every 8,000 hours of use (six years) and this can be done at Fluke service centers. Fluke engineers designed the product in a way to minimize the drift of the analog components over time, so the tester does not go off the calibration limits.

- Calibration is available at a nominal charge (valid for one year)
- Performance Test is available at a nominal charge



### Fluke 810 Sensor (Triaxial accelerometer)

Accelerometers are designed to last for ten-plus years

- Calibration is available at a nominal charge (valid for one year)



### Fluke 805 Vibration Meter

It is suggested (but not required) that the 805 be checked every 8,000 hours of use (six years) and this can be done at Fluke service centers. Fluke engineers designed the product in a way to minimize the drift of the analog components over time, so the meter does not go off the calibration limits.

The 805 integral accelerometer does not need to be calibrated after the initial calibration conducted by Fluke. The sensor does not drift and damaged accelerometers (crystal fractures from shock) seldom function at all after the damage occurs.

- Performance Test is available at a nominal charge

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