

## The Fluke 805ES 77 for Fluke 805 Vibration Meter



The Fluke 805ES is an external vibration sensor that is ideal in situations for which it is either difficult or impractical to use the onboard vibration sensor tip of the 805 Vibration Meter. The 805ES allows you to take measurements in crowded or hard-to-reach locations, behind machine guards or enclosures, or in out-of-reach places where it is difficult to apply sufficient manual pressure to the 805 Vibration Meter.

Ideal for:

- Scheduled machine condition checks
- Tracking long term overall machine health
- Quick checks on-site to understand client machine condition
- Recommend to clients for in-between visits

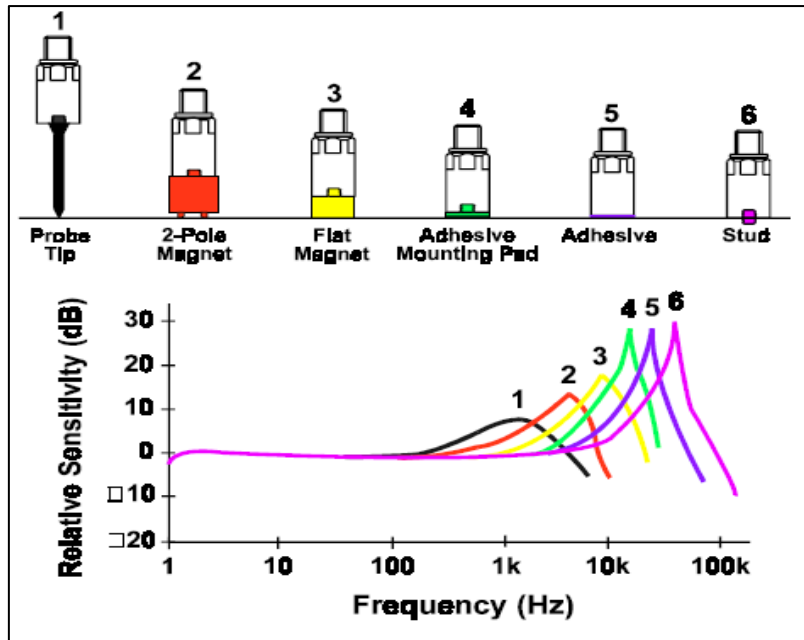
### **Features / Benefits**

- Low-profile 90-degree sensor body allows the sensor to get into tight spots
- Rugged, coiled cable minimizes dangling, while stretching to more than 7ft when needed
- Powerful "U" shaped magnet mount creates a firm connection to flat, or curved measurement surfaces
- Rugged, sealed cable connector with strain relief tail reduces cable wear
- Removable sensor magnet to allow for direct attachment to a sensor mounting pad, or threaded hole on a piece of equipment
- Connects directly to 805 Vibration Meter SMB connector located in the heel of the meter

### **Frequently Asked Questions**

### Why are the readings different with the onboard probe tip and the external sensor?

Overall vibration readings will be consistent when using either the probe tip or the external sensor, but they will vary between the two measurement modes:



Different sensor mounting methods have different frequency responses. The onboard probe tip (#1 in diagram at left) will respond to vibration differently than the magnet mount external sensor (#2 in diagram at left). Both sensors can be used for machine screening with the 4-level severity scale and both sensors can be used to trend readings, as long as all of the trend measurements come from the same sensor type. Do not mix data from different sensor types into a single trend.

### When should I use the onboard probe tip or the external sensor?



Option 1 - A combination vibration sensor and force sensor tip compensates for user variance (force AND angle) and provides accurate machine condition information with the four-level severity scale for making quick maintenance decisions. 5 tools in 1: low frequency and high frequency vibration, IR temperature, overall machine condition and bearing health severity score.



Option 2 - The external sensor with its magnet mount and low profile allow a technician to reach and fit into places that can't be supported by the onboard probe tip.

### How often should I calibrate the external sensor?

Mechanical testers and meters do not have the same calibration needs or requirements as electrical test equipment. Vibration sensors are accelerometers that consist of piezoelectric crystals. Accelerometers

are designed to last for ten-plus years and there is nothing to adjust or calibrate. A calibration check is available at a nominal charge on a schedule that the user deems appropriate to make sure the sensor is providing accurate and reliable readings.

### **Package Contents**

- 805/ES External Vibration Sensor Assembly
- Certificate of Calibration
- Quick Reference Guide

### **Dimensions**

<b>Fluke 805 ES</b>								
<b>Description</b>	<b>Weight (kg)</b>	<b>Weight (lbs)</b>	<b>Length (mm)</b>	<b>Width (mm)</b>	<b>Height (mm)</b>	<b>Length (in)</b>	<b>Width (in)</b>	<b>Height (in)</b>
FLUKE-805/ES	0.363 kg	0.80 lbs	197.49	158.75	63.5	7.75	6.25	2.5