



EN-242 Bearing Condition Meter is specifically designed for closely monitoring the condition of roller bearings in rotating machinery. EN-242 measures acoustic bearing noise above 2 kHz and up to 20 kHz and converts it to a digital scale of bearing vibration in units of Bg, allowing the user to detect anomalies in rotating machinery and to correct defects in a timely manner to avoid machine downtime. The meter has ample memory for storing data for later readout directly on the meter. The MAX HOLD button also helps to hold the maximum value on the display, changing only if a greater value occurs. This is an overall bearing condition meter that also measures vibration in rms values to conform with ISO10816-3, and also includes an electronic stethoscope. This is an ideal tool for predictive maintenance of rotating machinery. This meter will record up to 100 data points and you can conveniently readout the stored values directly on the backlit graphic LCD display. Test roller bearings and apply lubrication correctly by using the stethoscope features to enhance machinery reliability. Compare your vibration results by using the ISO 10816-3 Severity Chart built-in right on the meter.



Features:

- Measures Bearing Condition as well as Acceleration and Velocity with convenient ISO 10816-3 severity chart.
- Records up to 100 data points and can directly readout on the LCD display.
- Remote icp powered accelerometer, **Made in USA**. Uses MIL std. connector and magnetic adapter on 10 ft. retractable coil cable., 3 meters extended, 0.5 meters retracted.
- HOLD/MAX HOLD/MAX** button, will hold the maximum value measured, and increase only if a greater value is measured., also records the maximum value measured.
- Electronic Stethoscope – Headphones for listening to the sound of roller bearings. This helps to find bearings and rolling elements that needs lubrication.
- Charges from standard USB port of PC computer, or use included charger.



Specifications:

EN-242-KIT	BEARING CONDITION METER
Acceleration	0 ~ 20.0 G's (rms).
Velocity	0 ~200.0 mm/s (rms)
Bearing Condition	0 ~20.0 Bg. (rms)





General Specifications

- Accuracy: Vibration.; $\pm 1\% + 3 \text{ LSD}$,
Accuracy: Bearing Condition.; $\pm 3\% + 3 \text{ LSD}$.
- Frequency Ranges:
Bearing Condition: 5 ~ 20 kHz.
Vibration: 5 ~ 1,000 Hz.
- Display Indications:
Graphic LCD with Backlighting.
- Power Supply:
Li-Ion rechargeable batteries x 2 with protection circuit.
Battery charge interval: once per week typical.
Battery Lifetime: 500 charge cycles. 2 to 3 years typical.
- Environmental:
Meter: -10°C to 50°C ., Sensor: -10°C to 70°C .
- Physical:
Dimensions: 152 x 83 x 32 mm., Weight: 1.2 kg. (complete kit).
- Standard Accessories All Included:
 - ✓ EN-242 meter with soft carrying case.
 - ✓ IEPE Standard Accelerometer on 3 meter Retractable cable,
 - ✓ Stainless Steel Stinger Probe and rare earth Al-Ni-Co magnetic base.
 - ✓ USB Recharger auto red and green charging LED built-in meter.
 - ✓ Industrial type Noise Reducing Headphones
 - ✓ Instruction manuals in English & Thai language.
 - ✓ NIST Traceable Calibration Certificate.
- Price and ordering information.
EN-242-KIT Bearing Condition Meter. Includes meter, and all Standard Accessories. Price: USD\$795.00.
- Warranty Information: The bearing condition meter is unconditionally warranted for Normal use for period of 5 years from date of purchase.
- Vibration Sensor:
Piezoelectric Accelerometer 100 mV/G.
- Output:
Audio: (3.5 mm) mini plug for headphones.
- Sensor power: 28 V. DC. @ 2 mA.



Audio Output for Headphones



BNC Input for Accelerometer



USB Battery Charging Jack.