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## HAND-HELD VIBRATION METER

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The BASELINE Hand- held vibration meter 2050 is a universally applied tool for one off or periodic measurement of vibration on machinery. Specifically the meter may be employed for the following applications:

- Quality Control Applications of rotating or reciprocating machines, such as fans, blowers, pumps, compressors, centrifuges, machine tools, paper plants, film plants, textile machinery, turbo machinery, motors, generators, domestic appliances, air-conditioning and ventilation equipment, or any other similar machine displaying steady state vibration levels.
- Monitoring the mechanical condition of machinery with the objective of preventing sudden breakdowns. The meter can be used to implement a very cost-effective and simple system of preventive-breakdown maintenance. The vibration levels on specified points of a machine is periodically logged, and compared to reference figures established in the beginning. A rising vibration trend can signal the

need for taking corrective action before an impending breakdown. This approach to maintenance has proved extremely useful, the world over in reducing unexpected plant failures, and saving precious resources.

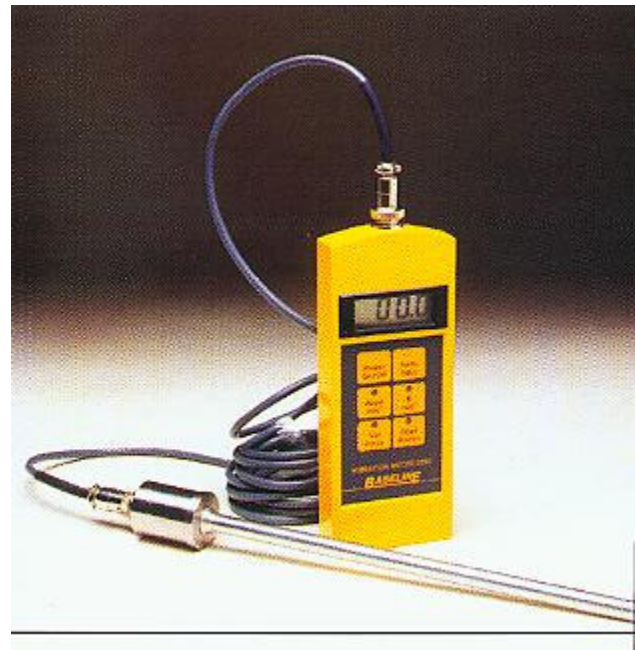
The Bearing Spike feature of the 2050 focuses attention on the bearing related vibration, and thus a very effective bearing replacement system can be implemented on this basis.

The 2050 also finds innumerable applications in laboratories, and research organisation engaged in machine dynamics, where a simple and reliable measurement must replace subjective methods of vibration severity assessment.

The 2050 is an extremely popular instrument, and is now offered in a sub- compact Surface- Mount technology version, with drastically reduced size and weight for truly hand –held convenience, portability, and reliability

### **Features of the 2050:**

- **Hand held meter for measurement of vibration as per IS 11724, ISO 2372, BS 4675 or VDE 2056**
- **Compact piezo- electronic sensor with built in line driven amplifier**
- **Multi- mode instrument for True RMS vibration velocity, bearing spike and Pk- Pk displacement.**
- **Powered by built- in rechargeable Ni- MH Battery.**
- **LCD display.**
- **No moving parts.**
- **Sealed and oil- proof membrane touch- switches.**
- **Wide range of vibration measurement for very low to very high levels.**
- **Extremely compact and reliable due to Surface Mount technology.**



**SPECIFICATIONS**  
**VIBRATION METER 2050:**

Sensor	:	Piezo-electronic Accelerometer with built-in charge amplifier in Stainless Steel body.
<b>Measurement Ranges:</b>		
Bearing Spike	:	0-199.9 m/sec <sup>2</sup> or 0-19.99 m/sec <sup>2</sup> True RMS.
Acceleration	:	0-199.9 m/sec <sup>2</sup> or 0-19.99 m/sec <sup>2</sup> True RMS.
Velocity	:	0-199.9 mm/sec or 0-19.99 mm/sec True RMS
Displacement	:	0-1999 microns or 0-199.9 microns Pk-Pk
Frequency Range	:	10Hz-1kHz (600-60,000 Cycles per minute)
Battery	:	Internal Ni- MH rechargeable battery. Approx charge life of 6 hours continuous use, and a life of approx 500 deep cycles.
Display	:	3 ½ digital LCD with Lo Batt. Indication
Temperature range	:	0-45 Deg C upto 90% humidity (non-condensing)
Dimensions	:	175 (L) x 70 (W) x 27 (D) mm.
Weight	:	400 gms approx, including battery
Standard Accessories	:	Sensor with 2m lead, Touch Probe, Magnetic base, AC Charger, Folio type carrying case, Operation Manual

Note1 : The above stated item is designed and manufactured exclusively by Baseline Technologies, New Delhi, India. Baseline Technologies reserves the right to amend the above specifications at any time in the interest of improvement of the product or its process. The above specifications do not constitute a contract unless accompanied with a formal offer from Baseline Technologies.

**Manufactured in India by Baseline Technologies, New Delhi, an ISO 9001:2000 company.**

