

PORTABLE VIBRATION METER VIB-15.



- True Value Vibration LCD Display. Instrument for Field Use. Sealed Membrane Keypad. Size- 255 x 105 x 60 mm. Power 6 x 1.5 V Cells. Weight less than 1 kg.
- Vibration Monitoring Acceleration, Displacement & Velocity



Measurement – As per ISO Standards. Peak, RMS and Peak to Peak. Modes available for Fast or Normal or Slow options.

PARAMETERS :		RANGE	RESOLUTION.
Displacement	:	10 to 1000 Micron	1 Micron.
Velocity	:	0.2 to 99.9 mm/sec	0.1 mm/sec.
Acceleration	:	0.1 to 20 g.	0.01 g.

• **Transient Shock Force** – Level of Peak value over RMS shown through **Crest Factor**. Indicate transients in the Vibration Signal (Bearing and/or Gear Wear, Cavitation etc).

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PORTABLE VIBRATION MONITOR (VIB-15).

1. VIB-15 is a Monitoring Tool (without Memory). This is an Instrument with Alpha-Numeric Digital Display which shows the **True value of Vibration as is being measured**. Any High Level Vibration Analyser must offer Time Wave Form feature for example – to project the true value.

To know, understand and interpret the Vibration Energy being generated in any equipment, true value indication has its own advantage for correct Diagnosis of Machine Fault.

- 2. In VIB-15, Acceleration / Velocity / Displacement Modes are available in 3 different duration (customer selectable) viz. Fast, Normal and Slow and of course all these are there with RMS or Peak or Peak to Peak Magnitudes.
 - Vibration Transducer is Accelerometer Type (not a Velocity Probe). Instrument Displays all the three options viz. Acceleration or Velocity or Displacement. Processing being integration (Acceleration to Velocity to Displacement), the results are devoid of Noise. (In case of a Velocity Probe to get Acceleration value. Differentiation is needed which is inherently a noisy process).
 - Meeting the requirement of ISO 10816, the Accelerometer (Transducer) has a range of 10 Hertz to 1000 Hertz. Within this range, Vibration Velocity happens to be a parameter, which offers most linear characteristics. (For Frequencies lower to 10 Hertz, or around the range of 1000 Hertz and above, Displacement and Acceleration respectively behave better). Major range of Industrial Equipments therefore can be conveniently Monitored and Evaluated in a Simple and Proven way by using VIB-15.
- 3. Apart from being a simple Monitoring or Display Tool for Vibration , it offers Machine Condition Evaluation in two ways.
 - Vibration value is evaluated and displayed with status as per the guideline of ISO 10816.
 - Transient Shocks (originating from Bearing, Gear etc) are measured and displayed as `Crest Factor'.

Since RMS, Peak and Peak to Peak options are available, depending on the requirement of the user, one would know any of these values on a continuous basis for any options (Acceleration / Velocity / Displacement).

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