

## FEATURE

### Accordance with ISO recommendation 2372

Vibration Tester AVD-80 Micro Controller based has been designed as a simple diagnostic tool for preventive maintenance. The instrument and the monitoring technique are based on the recommendations of ISO.

Need based maintenance is the latest trend of industry with which maintenance costs are low and life of machinery is most optimum. Condition monitoring is basic need for need maintenance.

All three useful measurements are possible. Displacement, Velocity and acceleration modes allow a user to perform basic vibration analysis.

Vibration measurement( in terms of RMS velocity in mm/s, Pk-Pk and Acceleration in m/s<sup>2</sup> RMS, Pk-Pk and Displacement in μm RMS, Pk-Pk )

### Machine Classes

The vibration class of a machine depends on its size, function, and the stiffness of its foundation. The standards define six classes, ranging from small electric motors to vibrating screens. For each class, vibration severity levels are given in four bands, ranging from very good condition through average and poor to bad.

### Measure and Record

Vibration severity is normally measured on the bearing housings. The measuring direction, horizontal, vertical or axial, and the numbers of readings taken on each machine depend on the mechanical problem one can expect. Out of balance in a fan, for example, will mostly affect the readings taken horizontally on the fan-end bearing.

## TECHNICAL SPECIFICATIONS

### Measuring range

Velocity	: 0.1 to 99.9 mm/s RMS, Pk-Pk
Acceleration	: 0.1 to 199 m/s <sup>2</sup> RMS, Pk-Pk
Displacement	: 0.5 to 2800μm RMS, Pk-Pk
Frequency range	: 5 to 1000Hz
Resolution	: 0.1 mm/s
Accuracy	: $\pm (2\% + 0.1 \text{ mm/s})$
Input Sensitivity	: 10pC/m/S <sup>2</sup>
Power supply	: 9V - 6 F22
Temperature range	: 0 to 50°C
Display	: LCD
Auto Off	: Yes
Battery low indication	: Yes
Weight	: 200gms
Vibration Transducer	: Piezo electric type Accelerometer
Sensitivity	: 10pC/m/S <sup>2</sup>
Weight	: 150gms with Magnetic Base

