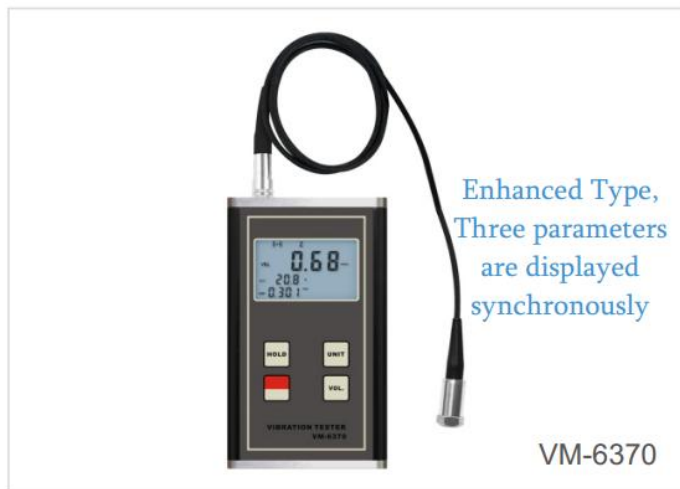


DIGITAL VIBRATION METER
MODEL NO. VM-6370(Enhanced Type)/VM-6380(3D Vibration Meter)



APPLICATION

Used for measuring periodic motion, to check the imbalance and deflecting of moving machinery.

Specifically designed for present measuring various mechanical vibration. So as to provide the data for the quality control, run time and equipment upkeep.

* VM-6380 can shown 3 same parameters in one display for 3 dimensional measurement.

* VM-6370 can display the parameters of is placement, Velocity and Acceleration simultaneously.

KEY FEATURES

- In accordance with ISO 2954, used for periodic measurements, to detect out-of-balance, misalignment and other mechanical faults in rotating machines.
- With the detection of 3 Dimensions, 3D Vibration Meter VM-6380 is the most scientific, comprehensive Vibration Meter in vibration detection field.
- Specially designed for easy on site vibration measurement of all rotating machinery for quality control, commissioning, and predictive maintenance purposes.
- Individual high quality accelerometer for accurate and repeatable measurements.
- Wide frequency range (10Hz~10kHz) in acceleration mode.
- Optional headphones for use as electronic stethoscope.
- Use RS-232 data output to connect with PC.
- Provide Bluetooth data output choice.

Vibration Standard

ISO/IS2373 Motor Quality Standard According As Vibration Velocity

| Quality Rank | Rev (rpm) | H: high of shaft (mm) | | |
|---------------|-----------|---------------------------------------|-----------|-----------|
| | | Maximum vibration velocity rms (mm/s) | | |
| | | 80<H<132 | 132<H<225 | 225<H<400 |
| Normal | 600~3600 | 1.8 | 2.8 | 4.5 |
| Good (R) | 600~1800 | 0.71 | 1.12 | 1.8 |
| | 1800~3600 | 1.12 | 1.8 | 2.8 |
| Excellent (S) | 600~1800 | 0.45 | 0.71 | 1.12 |
| | 1800~3600 | 0.71 | 1.12 | 1.8 |





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SPECIFICATIONS

| Model | | VM-6380 | VM-6370 |
|----------------------|--------------|--|--------------------------|
| Sensor | | 3-Axis Piezoelectric Accelerometer | Piezoelectric Transducer |
| Measuring Range | Acceleration | 0.1~400 m/s ² 0.3~1312 ft/s ² 0.0~40 g Equivalent Peak | |
| | Velocity | 0.01~400 mm/s 0.004~16.0 inch/s True RMS | |
| | Displacement | 0.001~4.0 mm 0.04~160.0 mil Equivalent Peak-peak | |
| Frequency Range | Acceleration | 10Hz~10kHz | |
| | Velocity | 10Hz~1kHz | |
| | Displacement | 10Hz~1kHz | |
| Accuracy | | 5% of Reading + 2 digits | |
| Operating Conditions | Temperature | 0~50 °C | |
| | Humidity | <90 %RH | |
| Power Supply | | 2x1.5V AA (UM-3) Battery | |
| Dimensions | | 130x76x32mm | |
| Weight | | 340 g (Not Including Batteries) | |
| Standard Accessories | | Main Unit | |
| | | 3-Axis Piezoelectric Accelerometer | Piezoelectric Transducer |
| | | Powerful Magnetic Base | |
| | | Probe (Cone) & Probe (Spherical) | |
| | | Carrying Case (B04) | |
| | | Manual Book | |
| Optional Accessories | | Headset | |
| | | RS-232C Data Cable with Software | |
| | | Bluetooth Data Adapter with Software | |

ACCESSORIES

| Accessories | Diagram | Using Situations | Using Method |
|------------------------------------|---|---|---|
| 3-Axis Piezoelectric Accelerometer |  | Three dimensional vibration parameters measurement of objects. | Be used with Powerful Rare Earth Magnet & Stinger Probe. |
| Piezoelectric Transducer |  | General vibration parameters measurement of objects. | Be used with Powerful Rare Earth Magnet & Stinger Probe. |
| Rare Earth Magnet |  | Magnetic objects with flat surface, roughness of less than Ra1.6, acceleration ≤ 20m/s. | connect the vibration sensor with Rare Earth Magnet with the M5 bolt included. And then place the Rare Earth Magnet to the object to be tested. |
| Stinger Probe (Ball / Cone) |  | Frequency is less than 1KHz and vibration energy is not small. | Connect the needle to the sensor directly by using probe groupware. |

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