

# VM6380 VIBRATION METER



## Applications:

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.

## Features:

With the detection of 3 Dimensions, 3D Vibration Meter VM-6380 is the most scientific, comprehensive Vibration Meter in vibration detection field.

\* In accordance with ISO 2954, used for periodic measurements, to detect out-of-balance, misalignment and other mechanical faults in rotating machines.

\* 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				
QualityRank	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

## Acision Authorised Distributor:

CE-Test & Measurement (S) Pte Ltd

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# VM6380 VIBRATION METER



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

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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