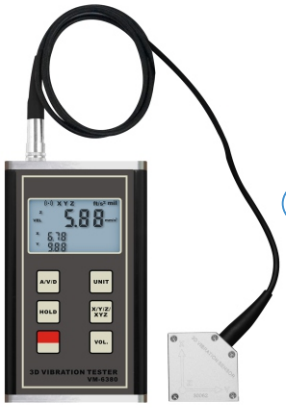
Vibration Meter



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

Model: VM-6380 (3D Vibration Meter)
VM-6370 (Enhanced Type)

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

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.

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Specifications

Model		VM-6380	VM-6370
Sensor		3-Axis Piezoelectric Accelerometer	Piezoelectric Transducer
Measuring Range	Acceleration	0.1~400 m/s² 0.3~1312 ft/s² 0.0~40 g Equivalent Peak	
	Velocity	0.01~400 mm/s 0.04~16.0 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	Temperature	0~50 °C	
Conditions	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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