Vibration Meter (Pen Type)

Affordable Type

VM-213

Model: VM-213

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.

Specifications

Model		VM-213
Sensor		Piezoelectric Transducer
Measuring Range	Acceleration	0.1~300 m/s² Equivalent Peak 985 ft/s²
	Velocity	0.01~300 mm/s True RMS 0.000~13.0 inch/s
	Displacement	0.001~3.000 mm 0.04~120.0 mil Equivalent Peak-peak
Frequency Range	Acceleration	10Hz~10kHz
	Velocity	10Hz~1kHz
	Displacement	10Hz~1kHz
Accuracy		10% of Reading + 2 digits
Metric/Imperial Conversion		√
Max. Value Hold		√
Power Off		Manual Power Off or Auto Power Off
Data Output		USB, RS-232
Operating Conditions		Temp.: 0~50 °C Humidity: <90 %RH
Power Supply		Lithium Battery
Dimensions		202x43x23 mm (8.0x1.7x0.9 inch)
Weight		130 g (Including Batteries)
Standard Accessories		Main Unit
		Carrying Case
		Manual Book
Optional Accessories		RS-232C Data Cable with Software
		Bluetooth Data Adapter with Software

Features

* Can display the parameters of Displacement, Velocity and Acceleration simultaneously.
* 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.
* Frequency range up to 10Hz~10kHz in acceleration mode.
* 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