

Vibration Tachometer



Model: RVM-4000

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. Multifunctional, one instrument combines Photo Tachometer & Contact Tachometer. Be able to measure rotation rate RPM(r/min) & Frequency Hz.

Features

- * 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.
- * Wide frequency range (10Hz~10kHz) in acceleration mode.
- * Optional headphones for use as electronic stethoscope.
- * Use USB 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



Specifications

Sensor		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	
Rotation Rate Range	60~99,990RPM(r/min) (Reading should be multiplied by 10 if the display shows '10')		
Frequency Range	1~20,000Hz (Reading should be multiplied by 10 if the display shows '10')		
Accuracy	5% of Reading + 2 digits		
Operating Conditions	Temperature: 0~50 °C Humidity: <90 %RH		
Power Supply	4x1.5V AAA (UM-4) Battery		
Dimensions	140x72x34mm		
Weight	380 g (Not Including Batteries)		
Standard Accessories	Main Unit		
	Piezoelectric Transducer		
	Powerful Magnetic Base		
	Probe (Cone)		
	Probe (Spherical)		
	Contact Tachometer Sensor		
	Photo Tachometer Sensor		
	Reflective Tape Marks (350mm)		
	Carrying Case (B04)		
	Manual Book		
Optional Accessories	Headset		
	USB Data Cable with Software		
	Bluetooth Data Adapter with Software		