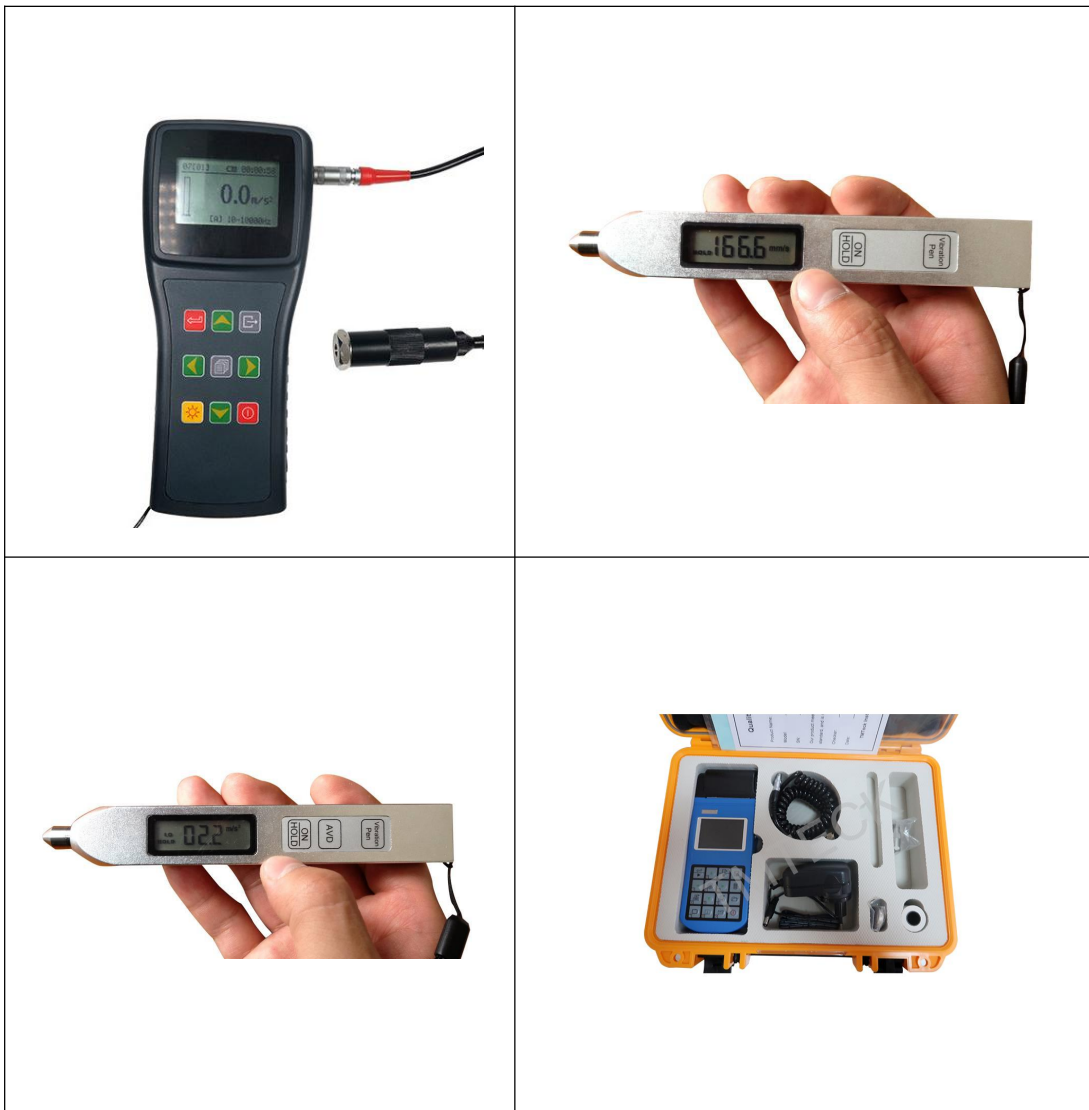


TMTECK

Portable Vibration Meter



Model TMV110 Portable Vibration Meter



Introduction

Model TMV110 portable vibration meter is suitable for routine vibration measurement, especially in reciprocating machinery vibration measurements.

This product use optimized-filtering method to ensure stable and accurate measurement indication in multi-interference measurements environment. And the product of smart appearance, white backlit display is easy to use in complex environment.

Features

All English display, easy to operate. White backlight for better operation in the dark. It is suitable for acceleration Peak data, velocity RMS data and Displacement Peak-Peak data measurement. It also provides measurements histogram in real time. Lowpass Filter can be set by users. Storage up to 10 points (10 data per point), a total of 100 data and time. Warning limit can be preset. Alarm when the measuring value exceeds the warning limit. Provide high-performance rechargeable Li battery and charging control circuit inside

with extra-long working and standby time. Battery sign, display the current remaining capacity.

Configuration

	NO.	Item	Quantity
Standard Configuration	1	Main unit	1
	2	Power Adapters (input:220V/50Hz output:6V/1000mA)	Choose one
		Power Adapters (input:110V/50Hz output:6V/1000mA)	
	4	Piezoelectric sensors	1
	5	Magnetic seat (with 2 bolts)	1
	6	Manual	1
	7	Product Packaging	1 set
Optional Configuration	9	Communication cable	1
	10	Probe	1

Technical Specification

Model	TMV110
Testing range	Acce: 0.1 m/s ² ~ 199.9 m/s ² (peak) Velo: 0.01 cm /s ~ 19.99cm /s(RMS) Disp: 0.001mm ~ 1.999mm(peak-peak)
Freq range	Acce: 10Hz ~ 10kHz Velo: 10Hz ~ 1kHz Disp: 10Hz ~ 500Hz
Tolerance	±5%
Temp	0°C ~ 40°C
Display	LCD,128×64 pixels with LED backlight
Data memory	10×10
Limit alarm	Yes(Beep)
Print	Data(External portable printer)
Battery	Rechargeable Li battery,1800mAh
Continuous working time	About 100h(without backlight)
Charge	About 5 hours
Software	No

The product especially have excellent accuracy and stability when used in high-frequency vibration spindle object (such as spindle CNC machine tools, woodworking motor, etc.) .

Model TMV210 & TMV280 Vibration Meter



Features:

- Used for fast failure detecting of motor, electric fan, pump, air compressor, machine tools and so on.
- Compact size, small weight, easy handling
- Prompt testing of vibration on the workshop machines
- For quick checking of unbalance misalignment, bearings and gears
- Guard against mechanical malfunction
- Holding tested value for 40 seconds
- Automatic switch off after 40 seconds
- TMV210 is used specially for velocity testing

•TMV280 is used for acceleration, velocity and displacement testing、

Technical Specifications:

Model	TMV210	TMV280
Parameter	RMS of vibration velocity (mm/s)	Acceleration, Velocity, Displacement
Testing range	Velocity: 0.1mm/s~199.9mm/s	Acceleration:0.1m/s ² -199.9m/s ² (peak) Velocity: 0.1mm/s-199.9 mm/s(RMS) Displacement: 0.001mm-1.999 mm (peak-peak)
Frequency range	Velocity:10Hz ~ 1kHz	Acceleration: 10Hz ~ 1kHz(LO) 1kHz ~ 15kHz(HI) Velocity: 10Hz ~ 1kHz Displacement: 10Hz ~ 500Hz
Accuracy	±5% ± 2digits	
Display	3 1/2 digits LCD	
Power supply	two button batteries(LR44 or SR44)	
Battery capacity	Approx. 5 hours working continuously	
Operating temperature	0℃ ~ 40℃	
Humidity	<85%	
Dimension	150mm×22mm×16mm	

Configuration:

	NO.	Item	Quantity
Standard Configuration	1	Main uni.	1
	2	Screwdriver	1
	3	Batteries SR44\LR44 1.5V	2
	4	Box	1
	5	Document	1(set)

VIBRATION SEVERITY PER ISO 10816					
Machine		Class I small machines	Class II medium machines	Class III large rigid foundation	Class IV large soft foundation
in/s	mm/s				
Vibration Velocity Vrms	0.01	0.28			
	0.02	0.45			
	0.03	0.71		good	
	0.04	1.12			
	0.07	1.80			
	0.11	2.80		satisfactory	
	0.18	4.50			
	0.28	7.10		unsatisfactory	
	0.44	11.2			
	0.70	18.0			
	0.71	28.0		unacceptable	
	1.10	45.0			

Portable Vibration Meter TMV500



TMV500 uses piezoelectric acceleration transducer to convert vibration signal into electric signal. Then by analyzing input signal, results including RMS of velocity values, peak-peak value of displacement, peak values of acceleration or real-time spectral charts are displayed or printed out. It can not only measure the three parameters, but also for rotational speed measuring.

The vibration meter is designed to test conventional vibration, especially the vibration test in rotating and reciprocating machines. It can be used not only to test the acceleration, velocity, and displacement of vibration as well as rev (or inherent frequency), but also perform simple failure diagnosis.

The technical specifications of TMV500 comply with the requirements of GB 13823.3. TMV500 is widely used in machinery, power, metallurgy, automobile and other industrial fields.

Configuration:

	NO.	Item	Quantity
Standard configuration	1	Main unit	1
	2	Power Adapters (input:220V/50Hz, output:9V/1000mA)	Choose one
		Power Adapters (input:110V/50Hz, output:9V/1000mA)	
	3	Piezoelectric sensors	1
	4	Magnetic seat (with 2 bolts)	1
	5	Manual	1
	6	Package case	1
Optional configuration	1	Speed transducer (Lacer)	1
	2	Software	1
	3	Probe	1
	4	Communication cable	1

Specifications:

	TMV500	TV300
Testing range (Metric)	Acce: 0.1 ~ 205.6 m/s ² (peak) Velo: 0.1 ~ 400.0 mm/s(RMS) Disp: 0.001 ~ 9.0 mm(peak-peak)	Acce: 0.1 ~ 392.0 m/s ² (peak) Velo: 0.01 ~ 80.00 cm/s(RMS) Disp: 0.001 ~ 18.1 mm(peak-peak)
Testing range (Imperial)	Acce: 0.01 ~ 20.98 g(peak) Velo: 0.01 ~ 15.75 in/s(RMS) Disp: 0.1 ~ 354.3 mil(peak-peak)	No

Freq range	Acceleration: 10Hz ~ 200Hz, 10Hz ~ 500Hz, 10Hz ~ 1KHz, 10Hz ~ 10KHz Velocity: 10Hz ~ 1KHz Displacement: 10Hz ~ 500Hz	
Frequency resolution	0.25Hz	
Data memory	100 × 80 pieces of data and 100 spectrums	25 × 62 pieces of data and 25 spectrums
Software	Yes	
Temp	0°C ~ 40°C	
Tolerance	±5%	
Speed measuring range	30 ~ 300000 rpm corresponding to 0.5 ~ 5000Hz	No
Measuring distance	0.15 ~ 1m	No
Display	TFT 320×200 pixels with RGB	LCD with backlight 320×200 pixels
Data interface	USB	RS232
Overall dimensions	212×80×35	171×78.5×28
Printer	Integrated thermal printer	External
Weight	320g	230g
Battery	Rechargeable Li battery,1500mAh	Rechargeable Li Battery,1000mAh
Continuous working time	About 50h	About 20h