

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

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