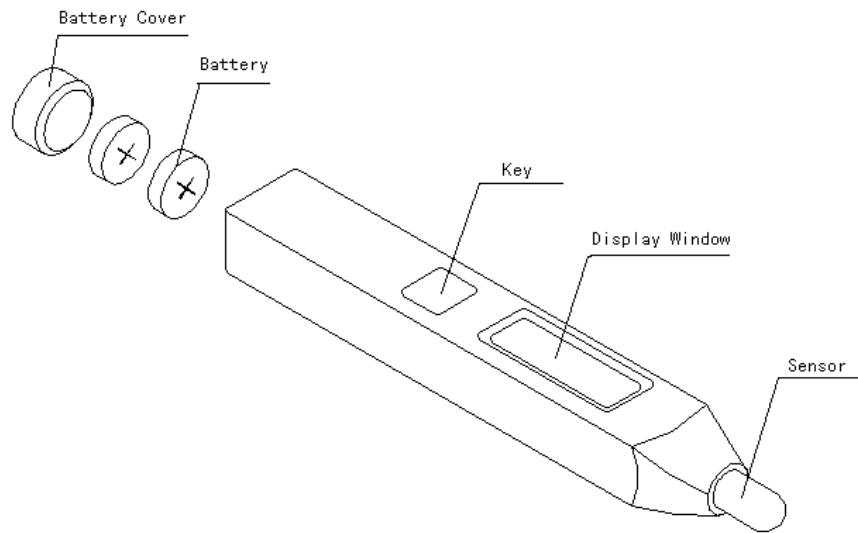


TV2000 Vibration Pen Meter

User's Manual

Amtast USA Inc

1. Structure



2. Operation

Push the sensor on the tested material surface and keep the meter perpendicular to it.

Start test by pressing the ON/HOLD key and data will be hold after test.

The upper limit of the pen is 199.9mm/s (rms). The LCD will show

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 if vibration exceed the upper limit.

After releasing the key, the LCD will show “HOLD”. The result of the release time will be hold for about 40 seconds, and then the pen will turn down automatically.

When the LCD show “BATT”, that means we should change batteries, or an error result may be given out. Additionally, two batteries must be changed simultaneously.

3. Features

Tested Parameter	RMS of vibration velocity (mm/s)	
Range	0.1mm/s ~ 199.9mm/s	
Transmission band	10Hz ~ 1kHz	
Accuracy	±5%±2	
Relative error of transmission	Frequency	20Hz≤f≤1000Hz, ±10% 10Hz≤f < 20Hz, -20~10%
Display	3 1/2 digits LCD, refresh interval about 0.5	
Power supply	two button batteries (LR44 or SR44)	
Operation environment	Temp.: 0℃ ~ 40℃ ; RH: <85%	
Dimensions	152mm × 22mm × 16mm	
Weight	About 155g (include two batteries)	

4. Attentions

- 1: While changing batteries, with the anode towards “ $\oplus$ ”.
- 2: The meter has no memory function. To keep the record, please write it down.
- 3: Test points should be chosen at the bearing, bearing support or other structure components that show the vibration characteristic explicitly.
- 4: To keep the sensor contacting the plane being test close, pressure should between 5N and 20N. Also, the pen should perpendicular to the plain surface.

-----Appendix-----

ISO2372 Machine vibration grades

Velocity (RMS) mm/s	I	II	III	IV
0.28	excellent	excellent	excellent	excellent
0.45				
0.71				
1.12	good	good	good	Good
1.8				
2.8	bad	bad	bad	Bad
4.5				
7.1	forbidden	forbidden	forbidden	forbidden
11.2				
18				
28				
45				

Notes:

- 1. Class I is small motor (less than 15Kw) , class II is medium motor(15Kw~75Kw), class III is big motor (hard base), class IV is big motor(soft base).**
- 2. The result should be gotten from three perpendicular directions of the bearing shell.**

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