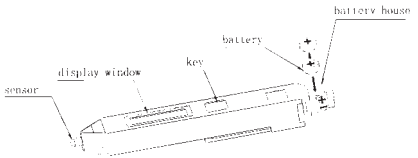
MANUAL

TV-200

TV-200

T02-026



MANUAL

OPERATION

- Push the sensor on the plane being tested while keep TV-200 perpendicular to it. Start test by pressing the key.
- After releasing the key, the LCD will show “HOLD”. The result of the release time will be hold for about 40 seconds, and then TV-200 will turn down automatically.
- The upper limit of TV-200 is 199.9mm/s (rms). The LCD will show 1. if vibration exceed the upper limit.
- 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.

FEATURES

Test 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	20Hz ≤ f ≤ 1000Hz, ±10% 10Hz ≤ f ≤ 20Hz, +10%/-20%
Display	3½ digits LCD, refresh interval about 0.5 second.
Power supply	Two buttony batteries (LR44 or SR44)
Battery capacity	10 hours continuously or 400 times testing
Operating environment	Temperature: 0ºC~40ºC; Relative humidity : <85%
Dimensions (WxDxH)	150mm x 22mm x 18mm
Weight	55g (include two batteries)

ATTENTIONS

- While changing batteries, with the anode towards “⊕”.
- TV-200 has no remember function. To keep the record, please write it down.
- Test points should be chosen at the bearing, bearing support or other structure components that show the vibration characteristic is meausuring in three perpendicular directions.
- If it is possible, the best choice to know the vibration characteristic is measuring in three perpendicular directions.
- To keep the sensor contacting the plane being test close, pressure should between 5N and 20N. Also, the pen should perpendicular to the plane.

APPENDIX

ISO2372 Machine vibration grades

Velocity (RMS) mm/s	***1***	***2***	***3***	***4***
0.28	excellent	excellent	excellent	excellent
0.45	excellent	excellent	excellent	excellent
0.71	excellent	excellent	excellent	excellent
1.12	good	excellent	excellent	excellent
1.8	good	good	excellent	excellent
2.8	bad	good	good	excellent
4.5	bad	bad	good	good
7.1	forbidden	bad	bad	good
11.2	forbidden	forbidden	bad	bad
18	forbidden	forbidden	forbidden	bad
28	forbidden	forbidden	forbidden	forbidden
45	forbidden	forbidden	forbidden	forbidden

Notes:

- *Class 1 is small motor (less than 15Kw), class 2 is medium motor (15kW ~75kW), class 3 is big motor (hard base), class 4 is big motor (soft base).*
- *The result should be gotten from three perpendicular directions of the bearing shell.*