

Portable Vibration Analyzer



Features

- On-site test equipment for assisting users to perform vibration measurement and bearing failure analysis on rotary machine.
- Auxiliary functions of data collection, display and storage.
- As a reliable and easy-to-use hand-held machine status detector, it is widely used in the prediction and maintenance of the rotary machine of the factory, the factory technician can monitor the equipment and find the potential problem on the early failure of the equipment.
- Function list: different vibration signal type detection; bearing state detection; temperature detection; detection data storage, browsing, deletion; sensor loss detection.

Description:

Vibration detection: Provide three types of signal types of velocity, displacement and acceleration, high-precision measurement is suitable for the detection of various rotating mechanical equipment vibration.

Bearing state detection: The high pass filtering data be integrated to special detection parameters, it can be used for detecting and evaluating the state of the rolling bearing.

Temperature measurement: Provides the reference data of the multiple analysis of the health status of the equipment, range of temperature measurement can be reached: -70°C~240°C.

Assist function: Default data storage function can store 50 projects data as maximum, all the data types can be saved for review after test. The instrument can automatically detects the vibration sensor is connected normally or not. Built-in rechargeable battery of the instrument is more convenient for the on-site operation.

Electrical

Signal Type	Acceleration
Channel	1
Signal Interface	IEPE(2.5mA)/AC Voltage
Input Range	±6V
Measure Type	Acceleration, Velocity, Displacement
Temperature Range	-40°C ~ +240°C
Temperature Accuracy	±3°C

Environmental

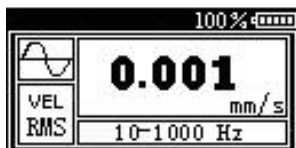
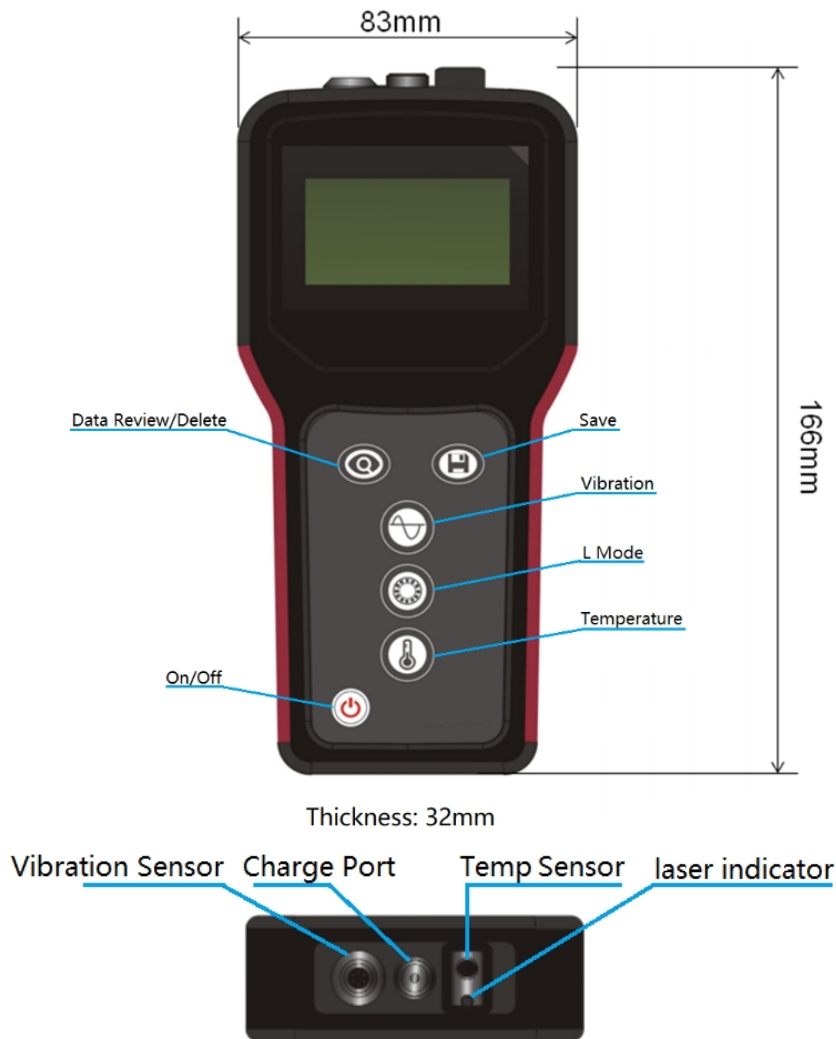
Battery	4 NiMH battery pack
Volume	1250mAh
Voltage	Typical4.8V (5.4V MAX)
Charge	Rechargeable
Operation Temperature	-10°C ~ +50°C
Storage Temperature	-30°C ~ +80°C
Humidity	≤85%

Performance

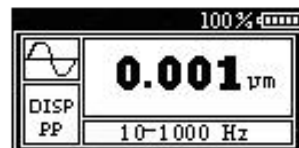
Measure Range	±50g
Characteristic Value	RMS, Peak-Peak, Peak
Dynamic Range	>80 dB Typical
Frequency Upper Limit	10000 Hz
Frequency Lower Limit	10 Hz
High Pass Filter	10Hz / 600Hz
Low Pass Filter	1000Hz / 10000Hz
Sampling Length	25600 Point
Sampling Rate Max.	64kSPS
Sampling Accuracy	24bits

Device Specification

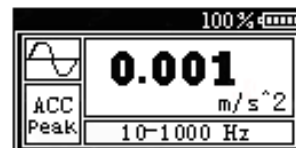
Size	169x81x31mm
Weight(Sensor & Cable Included)	360g
Screen	128x64, LCD screen, 2.1 inch
Operation Interface	Embedded Operating System
Processor	Cortex-M4
Memorizer	128k Bytes
Data Port	USB
Signal Port	Acceleration, Temperature



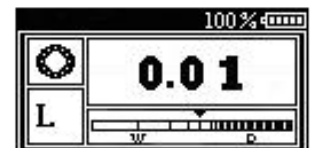
Vibration Velocity



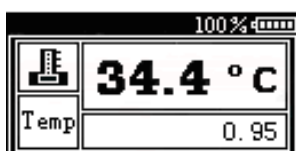
Vibration Displacement



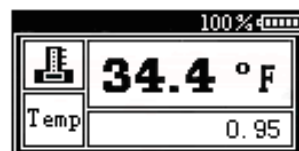
Vibration Acceleration



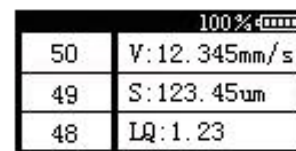
L Mode



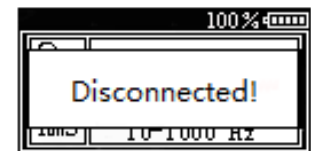
Temperature DegC



Temperature DegF



Data Review



Sensor Detect

System kits:

Portable vibration detector 1 unit; Accelerometer 1 unit; Sensor mating cable(1.2m) 1 piece; High magnetic force mounting adaptor 1 piece; Equipment charger 1piece; User manual 1 piece;