

# MV800

## Portable vibration meter

Professional manufacturer, best quality with competitive price ●  
Recommended by the world UT NDT inspection association for training and examination ●  
Core technology with independent intellectual property rights, certificate of CE, GOST and etc.. ●



### Overview

MITECH portable vibration meter MV800 is made up of piezoelectric transducer and digital display circuit. It is mainly used to measure vibration acceleration, speed and displacement of various rotary machine. The product has the advantages of large measurement, wide variety, intuitively demonstration, small size, light weight etc. It is widely used in measurement on site or at height and can reduce the working strength, improve the working efficiency

## Technical parameters

### Technical Specifications

Vibration sensor
Measurement range(displacement)
Measurement range(speed)
Measurement range(acceleration)
Measurement accuracy
Indication error
Frequency range
Display mode
Sampling period
Output signal
Dimensions
Power model
Battery life

### Technical Parameters

separated charge-amplifier and build-in acceleration transducer
0.001~1.999mm(Peak to peak: valid value*2√2)
0.1~199.9mm/s (valid value)
0.1~199.9m/s <sup>2</sup> (peak value: valid value*√2)
±5% measured value
±2
10Hz~10KHz
3-digit Semi liquid crystal display
1s
AC 2v(peak value, full measurement above 10k)
185mm*68mm*30mm
6F22 9v packed cells
continuous use for 30 hours

## Features

- Separate design, small size, stable performance low-consumption,attractive appearance.
- High contrast segment LCD humanized interface, easy to operate.
- Apply to harsh environment, with anti-electromagnetic interference ability, high accuracy.
- High frequency and low frequency measurement, easy to judge fault type of machine.
- Equip reliable ring accelerometer, superior than compression type sensor
- Auto sleep and auto power off
- In accordance with national standard, the measurement value can be compared with ISO2372 to judge the running state of device.
- Signal output,equips with (optional) earphone can realize the function of stethoscope.
- Signal output equips with (optional) oscilloscope to monitor and record the vibration.

## Working Principle

MV800 combines the quartz crystal and PZT piezoelectric effect together. When the quartz crystal or PZT is under strength, the surface generates charger, the vibration was changed into electrical signal by acceleration transducer. After processing and analyzing, the acceleration, speed and displacement are shown out in the liquid screen.

## Configuration

	No.	Type	Quantity	Remarks
Standard Configuration	1	Main unit	1	
	2	Long probe	1	
	3	Acceleration sensor	1	
	4	Cable	1	
	5	6F22 battery	1	
	6	User's manual	1	
	7	Warranty	1	
Optional Configuration	1	Short probe	1	
	2	Earphone	1	
	3	Sheathe	1	
	4	Cable (signal line)	1	