

VIBRATION METER

General features and functions:

This product uses piezoelectric effect of artificial polarized ceramic for design, is suitable for conventional vibration measurement of mechanical devices, specially the vibration measurement of revolving machinery. The unit can measure acceleration, velocity and displacement, which is widely used in mechanical manufacture, electric power metallurgy and general aviation field.

1. Acceleration, velocity and displacement measurement
2. Different vibration frequency selection
3. High sensitivity probe head for accurate measurement
4. Provides long and short probe head
5. Rigid designs, portable for carrying along with use.

Measuring range: Acceleration: 0.1~199.9m/s² [peak (rms*√2), peak value]
 Velocity: 0.1~1999.9mm/s [rms, rms value]
 Displacement: 0.001~1.999mm [p-p (rms*2√2), peak-to-peak value]

Measuring accuracy: ±5% or 2digits

Power supply: 9V alkaline battery

AR63B features the following characteristics:

1. Detached unit design and easy to use;
2. Maximum value hold function;
3. Environment temperature display function;
4. Accessory with USB and computer software can connect to computer.

Technical Specifications:

AR63A / AR63B

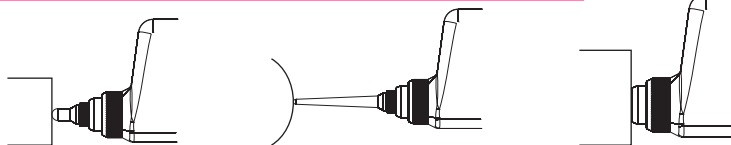
Vibration pickup	Piezoelectric ceramic accelerometer (shear-type)
Measurement frequency range of acceleration	10Hz~1KHz(LO); 1KHz~15KHz(HI)
Measurement frequency range of velocity	10Hz~1KHz(LO)
Measurement frequency range of displacement	10Hz~1KHz(LO)
LCD display	3.5 digits display
Displays refresh cycle	1S
Single output	AC output 2 V peak (display full scale) Load impedance 10K?or more earphones can be connected
Static current	≤20μA
Operating current	≤25mA
Operating temperature range	0~40℃
Operating humidity range	30~90 %RH

Packing Information

AR63A

Product Net Weight	147gm
Product Size	67*30*183mm
Packing	Gift box
Standard Quantity Per Carton	20
Standard Carton Size	62.5*45.0*28.5cm
Standard Carton Gross Weight	17.4kg

Measurement way is separated as following 3 conditions, please select according to actual condition:



- Measurement with short (S) probe head: this probe head is necessary, adapts in quite wide range vibration measurement, and can obtain good response value, as shown in figure:
- Measurement with long (L) probe head: this probe head is attachment put in packing box, mainly adapts in narrow objects or special objects field, response is fast, as shown in figure:
- Measurement without probe head: adapts in smooth object surface measurement to get stable value, as shown in following figure:

AR63A Portable type



AR63B Detached probe type



USB1.1

AR63A accessory: (L) Probe head AR63B accessory: USB Data cable

