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POCKETABLE VIBRATION METER

∧∧Riovibro

Simple & Smart Excellent Long-Term Reliability

The VM-63C is a highly compact vibration meter designed mainly for maintenance and inspection of industrial machinery, with particular emphasis on rotational machinery. The integrated accelerometer and digital display eliminate any need for cables, making on-site measurements in the field easy and quick. The unit can be held in one hand and operated with a single button, combining superb convenience with complete reliability and dependability.

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Accelerometer attachments

The vibration detector of the VM-63C can be used either without an attachment or with one of two types of attachments (S and L) to meet different measurement requirements.



Attachment S PV58008

Provides good response and reproducibility over a wide vibration frequency range. Unless there are special requirements, the unit should be used in this condition.

2)



No attachment

Actual size

Best suited for measuring vibration characteristics in the high range (10 Hz to 15 kHz). Only for cases where the tip can be brought into planar contact with the measuring object.



Attachment L VP-53Y

Suitable for measurement in cases where access space to the measurement object is limited.

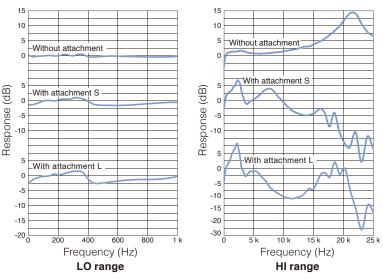


Features

- Simply by holding the unit against the target object, measurement over a wide range of vibration frequencies is possible.
- LCD readout shows either acceleration (m/s² Peak), velocity (mm/s RMS), or displacement (mm P-P).
- Measurement for unbalanced conditions, misalignment (low vibration frequency range) or bearing vibrations (high vibration frequency range) is also possible.
- Wide-range design eliminates the need for frequent measurement range switching.
- A power switch is not needed. Pressing the MEASURE button turns the unit on, and power shuts down automatically after a period of inactivity.
- Support for use of rechargeable batteries reduces environmental impact.

(Alkaline batteries provide about 50 hours of continuous use)

Typical characteristics for acceleration measurement



Specifications

	Chinese BoHS CE marking	N
; sianuarus		
nont rongo	Plezoelectric accelerometer (shear type)	
0		10
,		
1		Outside of temperature
'		range at left
		±8 % ±2 digits
,	•	±8 % ±2 digits
	±10 % ±2 digits	±15 % ±2 digits
1 7 0		
ration	10 Hz to 1 kHz (LO) 1 kHz to 15 kHz (HI)	
у	10 Hz to 1 kHz	
cement	10 Hz to 1 kHz	
	Display value is held when MEASURE button is released	
ent value display	3 1/2 digits, digital (LCD)	
update rate	Approx. 1 s	
tput	Earphone (VP-37) can be connected	
impedance	Approx. 170 Ω	
npedance	Approx. 10 kΩ or higher	
put	Approx. 2 V PEAK	
Power supply	IEC R6 (size AA) batteries (alkaline / manganese or	
	nickel-hydride rechargeable batteries) x 2	
consumption	Approx. 35 mA	
/ life	About 50 h continuous use (at 25 °C, with alkaline batteries	
ions for operation	-20 °C to +60 °C, 90 % RH or less (no condensation)	
accessories	IEC R6 (size AA) alkaline batteries x 2,	
	silicone rubber case x 1,Attachment S x 1	
	ations e standards e standards ment range vration y ccement ent accuracy ed to 80 Hz) vration y ccement ent accuracy ed to 80 Hz) vration y ccement ent accuracy accuracy ent accuracy y ccement ent value display update rate tput impedance mpedance tput pply consumption / life ions for operation s and weight accessories	e standards Chinese RoHS, CE marking Piezoelectric accelerometer ment range rration 0.1 to 199.9 m/s² PEAK (Rł) y 0.1 to 199.9 mm/s² RMS cement 0.001 to 1.999 mm P-P (Rł) ent accuracy Between ed to 80 Hz) -10 °C and +50 °C rration ±5 % ±2 digits y ±5 % ±2 digits cement ±10 % ±2 digits quency range fration rration 10 Hz to 1 kHz y 10 Hz to 1 kHz cement 10 Hz to 1 kHz cement 10 Hz to 1 kHz piplay value is held when N ent value display 3 1/2 digits, digital (LCD) update rate Approx. 1 s tput Earphone (VP-37) can be co impedance Approx. 10 kΩ or higher tput Approx. 2 V PEAK pply IEC R6 (size AA) batteries or

Optional accessories

Name	Model
Earphone	VP-37
Attachment L	VP-53Y



Operation

Measurement Preparations

1. Insert two IEC R6 (size AA) batteries into the battery compartment. 2. Use the acceleration/velocity/displacement selector to select the measurement mode. If acceleration measurement (m/s²) has been selected, use the low-range/high-range selector to set the vibration frequency range to LO (Low range: 10 Hz to 1 kHz) or HI (High range: 1 kHz to 15 kHz).



Vibration frequency range selector

Measurement Procedure

- 1. Press the MEASURE button to turn the unit on and hold the vibration detector against the measurement object. Use a pressure of about 500 g to 1 kg.
- 2. While the MEASURE button is being pressed, the vibration value is shown on the display.
- 3. Releasing the MEASURE button causes the vibration value at that point to be held on the display for easy reading.
- 4. Pressing and holding the MEASURE button again causes measurement to be resumed, allowing repeated measurement.
- 5. If no other operation is performed for 60 seconds, power will



Other functions Battery status indication 1kHz When the battery symbol on the display flashes, the batteries need to be replaced.

Signal output connector Full scale is equivalent to 2 V (peak)

Earphone (VP-37, option) can be connected here.



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