

# **SPECIFICATIONS**

Vibration Meter

**VM-63A**



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## Outline

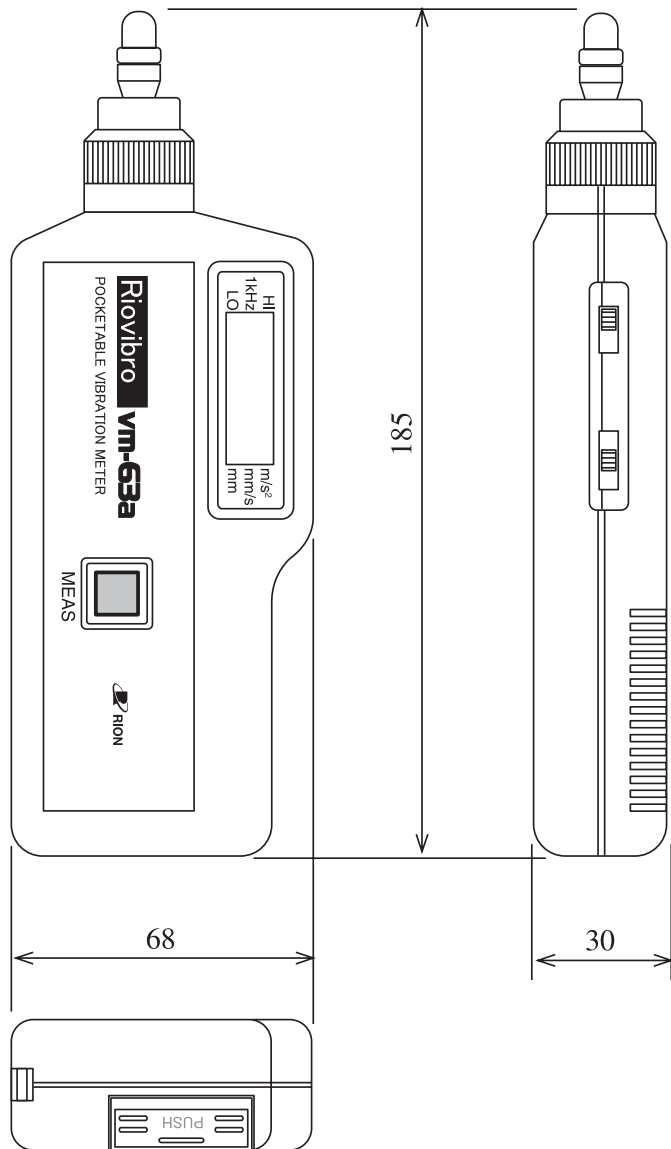
The VM-63A is a vibration meter designed for easy measurement of vibrations in rotational machinery or the like. Measurement is performed simply by holding the tip of the unit against the measurement object and operating one button. The unit can measure acceleration, velocity, and displacement. For acceleration, two measurement ranges (10 Hz to 1 kHz or 1 kHz to 15 kHz) can be selected.

The unit operates on a single 9-volt battery (6F22). There is no power switch, because the auto power off function shuts the unit off automatically.

## Specifications

Vibration pickup	Piezoelectric accelerometer (shear-type)
Measurement range	
Acceleration:	0.1 to 199.9 m/s <sup>2</sup> peak (rms × $\sqrt{2}$ )
Velocity:	0.1 to 199.9 mm/s rms
Displacement:	0.001 to 1.999 mm p-p (rms × $2\sqrt{2}$ )
	Velocity and displacement range is limited by acceleration 199.9 m/s <sup>2</sup> .
Measurement accuracy	±5% ±2 digits
Measurement frequency range	
Acceleration:	10 Hz to 1 kHz (LO) 1 kHz to 15 kHz (HI)
Velocity:	10 Hz to 1 kHz
Displacement:	10 Hz to 1 kHz
Display	3-1/2 digit digital display
Display update cycle	1 s Value updated while MEAS button is pressed and held when button is released.
Signal output	AC output 2 V peak (display full scale) Load impedance 10 k $\Omega$ or more Earphone (VP-37) can be connected

Power supply	6F22 9 V battery × 1	
Current consumption	Approx. 7 mA at 9 V	
Battery life	About 25 h continuous use (at 25°C, with manganese battery)	
Auto power-off function	Operates when no control is operated for 1 minute	
Ambient conditions	-10 to +50°C, 30 to 90% RH (no condensation)	
Dimensions	185 (H) × 68 (W) × 30 (D) mm	
Weight	Approx. 250 g (including battery)	
Supplied accessories	Soft case	1
	Battery 6F22	1
	Attachment S	1
	Instruction label	1
	Instruction manual	1
	Inspection certificate	1
Optional accessories	Attachment L	VP-53Y
	Earphone	VP-37



Unit: mm

### Dimensional Drawings

Specifications subject to change without notice