



# RK TECHNOLOGIES

We don't just sell equipment — we support your complete NABL accreditation journey.

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## RK-VC-606

### Vibration Calibrator

◆ 159.2 Hz | ±3% ACCURACY | FIELD PORTABLE



M5 stud mounting detail

### PRODUCT OVERVIEW

The RK-VC-606 Vibration Calibrator is a precision, self-contained handheld shaker designed for quick, reliable field verification and calibration of accelerometers, vibration monitoring systems, vibration meters, and recording systems.

It generates a stable, known RMS vibration output at 159.2 Hz — a widely accepted calibration standard — simultaneously providing acceleration, velocity, and displacement reference outputs. The compact aluminium housing with a single push-button operation makes it ideal for on-site calibration tasks without the need for a laboratory.

Compatible with accelerometers weighing up to 150 g. Powered by 4 × AA batteries with a fast ramp-up time of under 3 seconds.



Blue Carry Case (Included)

### KEY FEATURES

Vibration Output	Design & Usability
<ul style="list-style-type: none"> <li>◆ Fixed calibration frequency: 159.2 Hz ±0.5%</li> <li>◆ Acceleration: 14.14 m/s<sup>2</sup> (Peak) ±3%</li> <li>◆ Velocity: 10 mm/s (RMS) ±3%</li> <li>◆ Displacement: 28 µm (Peak-Peak) ±4%</li> <li>◆ Transverse output &lt; 5% — minimal cross-axis interference</li> <li>◆ Total harmonic distortion &lt; 3%</li> </ul>	<ul style="list-style-type: none"> <li>◆ Supports accelerometers up to 150 g load</li> <li>◆ Single push-button ON/OFF operation</li> <li>◆ Fast ramp-up: ready in &lt; 3 seconds</li> <li>◆ Compact cylindrical aluminium body — 56 × 200 mm</li> <li>◆ Lightweight: 960 g including batteries</li> <li>◆ 4 × AA (1.5 V) battery — no mains supply needed</li> </ul>



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### TECHNICAL SPECIFICATIONS

Parameter	Specification
<b>Vibration Outputs</b>	
Operating Frequency	159.2 Hz $\pm$ 0.5%
Acceleration Output	14.14 m/s <sup>2</sup> (Peak) $\pm$ 3% [equivalent to 1g RMS $\approx$ 9.81 m/s <sup>2</sup> ]
Velocity Output	10 mm/s (RMS) $\pm$ 3%
Displacement Output	28 $\mu$ m (Peak-Peak) $\pm$ 4%
Transverse Output	< 5% of primary axis output
Total Distortion (THD)	< 3%
<b>Mechanical &amp; Load</b>	
Maximum Sensor Load	150 g (accelerometer mass limit)
Mounting Thread	M5 stud on top surface (standard accelerometer thread)
Housing Material	Anodised aluminium alloy
Dimensions	$\varnothing$ 56 mm $\times$ 200 mm (Diameter $\times$ Height)
Weight	960 g (including batteries)
<b>Power &amp; Operation</b>	
Power Supply	4 $\times$ 1.5 V AA (UM-3) batteries — no mains adaptor required
Ramp-Up Time	< 3 seconds from power-on to stable output
Controls	Single push-button ON/OFF with LED status indicator
<b>Environmental</b>	
Operating Temperature	-10°C to +40°C
Operating Humidity	$\leq$ 85% RH (non-condensing)

### STANDARD PACKING LIST

Item	Qty	Remarks
RK-VC-606 Vibration Calibrator (main unit)	1 pc	
Blue Foam-Lined Carry Case	1 pc	Polypropylene
Small Screwdriver (battery access)	1 pc	
User Manual / Calibration Certificate	1 pc	

Note: 4  $\times$  AA batteries NOT included. Standard M5-threaded accelerometers fit directly on the calibrator stud.



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### TYPICAL APPLICATIONS

Calibration Labs	Industrial Field Use	Maintenance & QA
<ul style="list-style-type: none"><li>◆ Accelerometer sensitivity check</li><li>◆ Vibration meter verification</li><li>◆ Reference standard for NABL labs</li><li>◆ Pre / post calibration check</li></ul>	<ul style="list-style-type: none"><li>◆ On-site vibration sensor check</li><li>◆ CbM system functional test</li><li>◆ Portable — no mains needed</li><li>◆ Pump / motor sensor validation</li></ul>	<ul style="list-style-type: none"><li>◆ ISO 10816 compliance checks</li><li>◆ Production-line sensor verification</li><li>◆ Incoming inspection of sensors</li><li>◆ Vibration recorder system check</li></ul>

### HOW TO USE

1	Screw the accelerometer under test onto the M5 stud on the top of the RK-VC-606.
2	Ensure the accelerometer weight does not exceed 150 g to avoid output amplitude error.
3	Insert 4 × AA batteries into the bottom battery compartment using the included screwdriver.
4	Press and hold the power button. The LED will light and the shaker will reach stable output in < 3 seconds.
5	Connect the accelerometer output to your vibration meter / data acquisition system and read the measured value.
6	Compare the reading against the reference: 14.14 m/s <sup>2</sup> peak acceleration   10 mm/s RMS velocity   28 μm peak-peak displacement.
7	Press the button again to power off. Store in the carry case.

### ORDERING INFORMATION

Model Code	Description
RK-VC-606	Vibration Calibrator — 159.2 Hz, handheld, with carry case, screwdriver and user manual
Optional: AA Batteries (4 pcs)	Alkaline AA batteries (UM-3) — recommended Panasonic or Duracell for best runtime

#### Contact RK Technologies for Pricing, Demo & Calibration Support

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