



**0021-AS159
PORTABLE VIBRATION CALIBRATOR
OPERATION MANUAL**

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VIDEO OF PRODUCTS.



1. Descripton

- Read this manual carefully before using the instrument for the first time.
- The instrument will not work after indicating undervoltage, it should be restarted after shutting down and fully charged.
- The instrument must be charged with a charger that is compatible with the instrument.

2. Overview

Model 0021-AS159 portable vibration calibrator is a kind of instrument for sensitivity calibration of vibration sensors and vibration measuring instruments. It has the advantages of small size, light weight and easy to use.

3. Main features

- 3.1 Frequency: 159.2 Hz±1 %
- 3.2 Amplitude: 10m/s²(RMS)±3.0%
- 3.3 Transverse vibration: <5%
- 3.4 Preheating time: <20s
- 3.5 Carrying capacity: <70g
- 3.6 Total distortion: <5%
- 3.7 Weight: 620g
- 3.8 Size: Ø54.5 mm×147mm
- 3.9 Power supply: Built-in 3.7 V, 3000mAh rechargeable battery
- 3.10 Power consumption: The battery can work continuously for more than 5h after full charge
- 3.11 Sensor mounting hole: M5×0.8mm

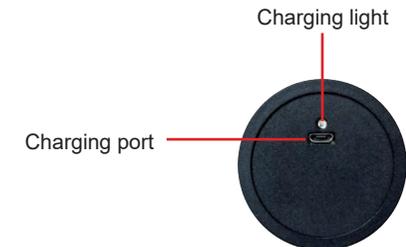
3.12 Condition:

Temperature: 0°C ~ 40°C

Relative humidity: 10% ~ 90%

3.13 External Charger: 5V/2A power adapter (USB port) and Mirco usb cable; Charging time >3h.

4. Construction



5.Directions for use

5.1 Switch ON/OFF

"ON/OFF": Press it and the platen starts vibrating, press it again and the platen stops vibrating.

5.2 Indicator light

"Operating status": green light flashing indicates that it is entering the stable state, green light is constantly on indicates that it is already in the stable state, and red light indicates abnormality.

"Charging status": Red light on means charging, green light on means full.

5.3 Install

Place the instrument on a firm platform and ensure that the surface of the instrument is horizontal. If it is not horizontal, the instrument will not be able to enter a stable state with the operating status indicator flashing green. For calibration of vibration sensors fixed with M5 threaded holes, the M5 setscrew should be screwed onto the M5 mounting hole at the top center of the surface, and then the sensor should be screwed onto the M5 screw with a tightening torque of 2N-m to 3N-m.

5.4 Power on

Press the power switch, the instrument is energized, if the battery voltage is too low, it should be charged in time. Next, the instrument "Operating state" indicator flashes green until it enters the stable state. At this time the green light is constantly on. If it has not been able to enter the stable state, place the instrument again to make the surface horizontal. After the surface is horizontal, the green light flashes for a period of time and then becomes normally on, indicating that the vibration amplitude of the surface has stabilized to the nominal value.

5.5 Charge

The instrument should be charged in time after long time use. When charging, insert the plug of the external charger into the socket and connect it to 110V or 220V mains. Normal charging indication of the external charger: Red light is on when it is charging, and green light is on if it is fully charged.