

# 1557-A Vibration Calibrator

- calibrates vibration pickups, meters
- generates 1 g at 100 Hz
- portable, battery-operated

This calibrator provides a single-frequency (100 Hz), single-level (1 g) check on the GR Vibration Pickups or any pickup whose total mass is 300 grams or less. It can provide on-the-spot calibration of vibration-measuring systems immediately before and after important measurements and can also be used to compare transducers or to calibrate working transducers against a standard transducer.

Operation of the calibrator is simple. A pickup of known mass is attached to the shaker, either in place of one of the removable 50-gram disks or to one of the disks by double-faced, pressure-sensitive tape. The user adjusts the Level control until the panel meter, calibrated in grams, indicates the mass of the pickup. The pickup will then be automatically subjected to an acceleration of 1 g at 100 Hz.

The 1557-A is a small, battery-operated unit consisting of a transistorized electromechanical oscillator and a cylindrical shaker. The acceleration output of the calibrator appears at two pillbox-shaped, 50-gram disks mounted on an internal cylinder that projects through the sides of the instrument.

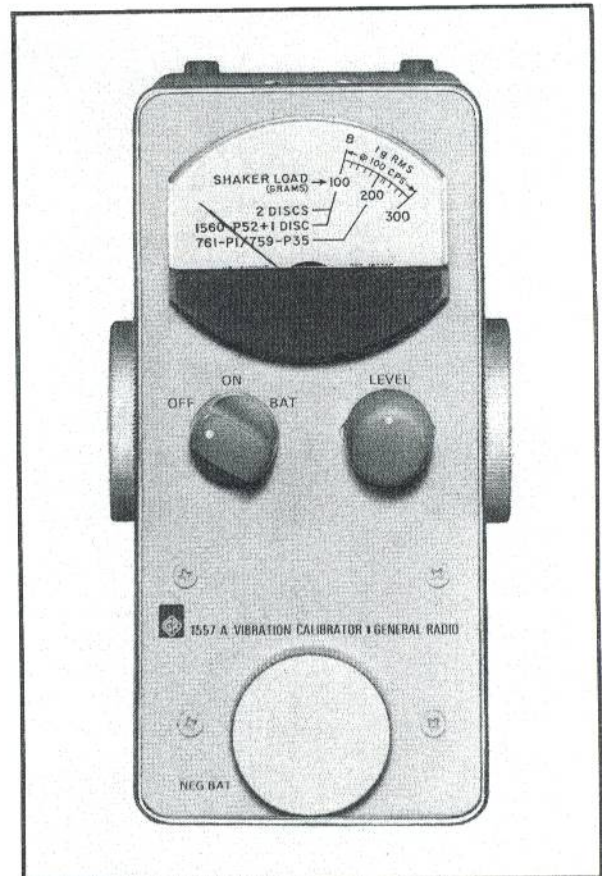
## SPECIFICATIONS

**Output:** ACCELERATION: 1 g rms  $\pm$  10%. 1 g = 386 in./s<sup>2</sup> (9.81 m/s<sup>2</sup>). VELOCITY: 0.614 in./s (15.6 mm/s) rms. DISPLACEMENT: 0.000978 in. (0.0248 mm) rms; 0.00277 in. (0.0704 mm) pk-pk. FREQUENCY: 100 Hz  $\pm$  1% for 50-gram load; 100 Hz + 0, -2% for 300-gram load.

**Power:** Battery operated (Eveready 724 or equivalent dry cell).

**Supplied:** Leather carrying case.

**Mechanical:** Aluminum case. DIMENSIONS (wxhxd): 4x8x4 in. (105x205x105 mm). WEIGHT: 3.25 lb (1.5 kg), net; 5.25 lb (2.4kg) shipping.



View of the calibrator with Type 1560-P52 Vibration Pick-up attached.

Description	Catalog Number
1557-A Vibration Calibrator (with dry battery)	1557-9702
Replacement Dry Cell, 1 req'd	8410-1050



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