

Portable Vibration Calibrator LPVC-A10



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Portable Vibration Calibrator LPVC-A10 is a tabletop unit with standard sine signals at continually varying frequency from 10 Hz to 1280 Hz. LCD digital panel displays defined amplitude of the acceleration, velocity and displacement. Either horizontal or vertical vibration can be generated. It is an all in one unit combining sine signal generator, power amplifier, standard transducer and a shaker.

Features

- Measures acceleration, velocity and displacement
- Continuous varying frequency
- Horizontal or vertical vibrational modes

Applications

Used to calibrate vibration monitoring / measuring instruments or data acquisition / data collector devices

Specifications

| Model No | LPVC-A10 |
|---|-------------------------------------|
| Frequency (continually adjustable) | 10 Hz to 1280 Hz + 0.01 % |
| Amplitude acceleration (at 30m/s ² pk) | 40 Hz to 320 Hz + 0.3 dB + 1 digit |
| | 10 Hz to 1280 Hz + 0.5 dB + 1 digit |
| Amplitude velocity (at 25mm / sec pk) | 40 Hz to 320 Hz + 0.5dB +1 digit |
| Amplitude displacement (at 50 μm pk-pk) | 40 Hz to 320 Hz + 0.5 dB + 1 digit |
| Probe | 5 mm , 8 mm and 11mm probe |
| Probe range | 0 ~ 2.0 mm |
| Display | 3 ½ digit display |
| Storage | -20 °C to 70 °C |
| Operational temperature | 0 °C to 50 °C |
| Humidity | 90 % non-condensing |
| Dimensions | 280 x 180 x 250 mm |
| Weight | 9 kgs |

Maximum vibration amplitude and maximum load

| Wt Freq | ≤ 100 g | | | ≤ 250 g | | | ≤ 650 g | | |
|------------|--------------------------|-------------|-----------|--------------------------|-------------|-----------|--------------------------|-------------|-----------|
| | A (m/S ²) | V (mm/S) | D (μm) | A (m/S ²) | V (mm/S) | D (μm) | A (m/S ²) | V (mm/S) | D (μm) |
| 10 Hz | 2.5 | 28 | 1300 | 3.5 | 40 | 1800 | 4 | 45 | 2000 |
| 20 Hz | 15 | 85 | 1900 | 10 | 60 | 1300 | 5 | 28 | 640 |
| 40 Hz | 60 | 170 | 2000 | 35 | 100 | 1100 | 12 | 35 | 380 |
| 80 Hz | 100 | 141 | 800 | 40 | 60 | 320 | 14 | 20 | 110 |
| 160 Hz | 75 | 53 | 150 | 35 | 25 | 70 | 12 | 8.5 | 24 |
| 320 Hz | 50 | 18 | 25 | 30 | 10 | 15 | 10 | 3.5 | 5 |
| 640 Hz | 30 | 5 | 3 | 20 | 3.5 | 2 | 6 | 1 | * |
| 1280 Hz | 23 | 2 | * | 10 | 0.9 | * | 5 | 0.4 | * |