The GJX-3 Vibration Calibrator can be used to calibrate many kinds of vibration transducers, such as acceleration transducer, velocity transducers and proximity transducer system and also to calibrate the vibration measuring instruments and vibration monitoring systems and data collecting systems compose of the said transducers. Standard sine signals with eight kinds of frequency, i.e. 10, 20, 40, 80, 160, 320, 640 and 1280 Hz can be generated from the calibrator. The amplitude of the three kinds of vibration output, i.e., acceleration, velocity and displacement, can be changed through potentiometers and shown on digital displays. They can be used in either horizontal or vertical direction to calibrate horizontal or vertical transducers.

GJX-3 Vibration Calibrator combines sine signal generator, power amplifier, standard transducer and the vibrostand in one and features a smaller volume, high accuracy and easy operation. It can be used either in laboratory or on site.


Specification

- **Frequency**
  10, 20, 40, 80, 160, 320, 640, 1280Hz +0.01%
- **Unit**
  Acceleration: m/s2 (PEAK)
  Velocity: mm/s (RMS)
  Displacement: um (PK-PK)
- **Amplitude accuracy**
  Acceleration (@30m/s2 pk, 80Hz)
    40Hz to 320Hz + 0.3dB + 1digit
    10Hz to 1280Hz + 0.5dB +1digit
  Velocity (@25mm/sec pk, 80Hz)
    40Hz to 320Hz +0.5dB +1digit
  Displacement (@10μm pk-pk, 80Hz)
    40Hz to 320Hz + 0.5dB + 1digit
- **Proximity probe linearity**
  Prode: 5mm and 8mm probes
  Range: 0~4.0mm
- **Display**
  3 1/2 digit display for acceleration, velocity or displacement

Physical

- **Size:** 280 x 180 x 250(mm)
- **Weight:** 8.4 Kg

Environmental

- **Temperature**
  Operation: 0ºC to 50ºC
  Storage: -20°C to 70ºC
- **Humidity**
  90% non-condensing
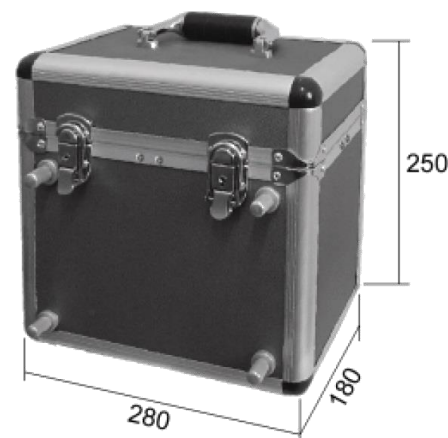
Maximum vibration amplitude and maximum load

Wt ＼ Freq	≤100g			≤250g			≤650g		
	a(m/S²)	v(mm/S)	d(μm)	a(m/S²)	v(mm/S)	d(μm)	a(m/S²)	v(mm/S)	d(μm)
10Hz	2.5	28	1300	3.5	40	1800	4	45	2000
20Hz	15	85	1900	10	60	1300	5	28	640
40Hz	60	170	2000	35	100	1100	12	35	380
80Hz	100	141	800	40	60	320	14	20	110
160Hz	75	53	150	35	25	70	12	8.5	24
320Hz	50	18	25	30	10	15	10	3.5	5
640Hz	30	5	3	20	3.5	2	6	1	*
1280Hz	23	2	*	10	0.9	*	5	0.4	*

ABP VIBRO

Vibration Measurement Systems

PROTECTION & RELIABILITY OPTIMIZATION INSTRUMENTS