MECH TECH GLOBAL
Reliable – Robust – Reasonable

GJX-6A Vibration Calibrator

The GJX-6A Vibration Calibrator is a portable device used to calibrate vibration sensors (accelerometers, velocity probes, proximity transducers) and vibration measuring instruments.

Functionality:
Generates standard sine vibration signals (1–1280 Hz).
Adjustable amplitude for acceleration, velocity, and displacement.
Digital display of vibration and frequency.
Supports both horizontal and vertical vibration.

Accuracy:
Acceleration: ±0.3 dB (40–320 Hz), ±0.5 dB (20–640 Hz).
Velocity: ±0.5 dB (40–320 Hz).
Displacement: ±0.5 dB (40–320 Hz).

Proximity Probe Calibration:
5 mm and 8 mm probes, range 0–2.0 mm.
Includes IEPE & charge conditioners, and -24V power for proximity sensors.

Performance Limits (Max amplitude vs sensor weight & frequency):
At 20 Hz: up to 16 m/s² (peak), 90 mm/s (RMS), 2000 µm (pk-pk).
At 80 Hz: up to 140 m/s², 200 mm/s, 1100 µm (for <30g sensor).
At 1280 Hz: up to 26 m/s², 2.3 mm/s (for <30g sensor).

Maximum vibration amplitude & transducer weight

Wt / Freq	≤30g			≤100g			≤500g		
	A(m/S²) Peak	V(mm/S) RMS	D(µm) Pk_Pk	A(m/S²) Peak	V(mm/S) RMS	D(µm) Pk_Pk	A(m/S²) Peak	V(mm/S) RMS	D(µm) Pk_Pk
20Hz	16	90	2000	16	90	2000	16	90	2000
80Hz	140	200	1100	90	130	740	50	45	260
1280Hz	26	2.3	-	17	1.4	-	5.6	0.4	-

Design:
Compact (300×250×210 mm), 6 kg.
Battery-powered (48+ hours), rechargeable with 100–240V AC.
Temperature -20–70°C.

Special Features:
Built-in sine generator, power amplifier, shaker, reference sensor, and display in one unit.
Battery power for field use.
Velocity selectable in peak or RMS.
IEPE & charge conditioners integrated.
It's a compact, field-portable vibration calibrator with long battery life, suitable for both lab and on-site sensor/instrument calibration.