BSZ-3B Vibration Calibrator

Can be used to calibrate vibration accelerometer, velocity and proximity transducer and also a vibration measuring instruments. Standard sine signals at frequency 10, 20, 40, 80, 160, 320, 640 and 1280 Hz can be generated from the calibrator. The amplitude of the, acceleration, velocity and displacement, can be defined through potentiometers and shown on digital displays. Either horizontal or vertical vibration can be generated.

BSZ-3B combines sine signal generator, power amplifier, standard transducer and a shaker in one and features a small volume, high accuracy and easy operation. It can be used either in laboratory or on site.

Specifications

Frequency: 10, 20, 40, 80, 160, 320, 640, 1280Hz ±0.01%

Amplitude accuracy:

Acceleration(@30m/s^2 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

Maximum vibration amplitude and maximum load

Wt / Freq	≤100g			≤250g			≤650g		
	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)
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	*

Size: 280 x 180 x 250(mm) **Weight:** 20lb

Temperature: Operation: 0ºC to 50 ºC **Storage:** -20 ºC to 70 ºC

Humidity: 90% non -condensing

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