Related Products (Acoustic Measurement Related Products)

Check the performance characteristics of floor surface materials

Tapping Machine Light Floor Impact Sound Generator
FI-01A

- Light and hard impact source imitating walking with shoes, designed for on-site use in measuring impact sound levels of flooring
- Allows checking insulation performance of floor surface materials mainly in medium and high frequency range
- ISO 10140-5, ISO 16283-2, JIS A 1418-1 Standard Light Impact Sound Source

Specifications
- Output frequency range: White noise, Pink noise (bandwidth 20 Hz to 20 kHz), Octave band noise
- Output signal level: Approx. 5.6 Vrms
- Output level range: 0 dB to 60 dB
- Octave bands: 31.5 Hz to 8 kHz
- Power: 100 to 250 V AC (50/60 Hz), approx. 20 VA
- Dimensions, Weight: 168 (H) × 198 (W) × 270 (D) mm, approx. 3 kg

For testing the acoustic properties of floor construction

Heavy Floor Impact Source
FI-02

- Heavy and soft impact source suitable for floor impact sound level measurement, simulating events such as children jumping up and down
- Can be used to evaluate mainly the medium and low frequency range insulation aspect in the acoustic performance of floor structures
- JIS A 1418-2: 2000 Standard Heavy Impact Source (impact force characteristics 1)

Specifications
- Hammers Number and Spacing: 5 hammers are arrayed at 100 mm intervals in a straight line
- Interface: RS-232C
- Power requirements: AC power supply 100 V to 240 V
- Built-in rechargeable lithium ion battery (Under continuous operation Approx. 45 minutes)
- Dimensions, Weight: 230 (H) × 265 (W) × 557 (D) mm, approx. 10 kg

For sound insulation testing of floors in buildings

Impact Ball
YI-01

- Designed for sound insulation testing in lightweight structures where a standard heavy impact sound source (bang machine) with characteristics (1) would create too much impact force
- By performing a free drop from a height of 1 meter, a stable impact force can be created.

Specifications
- Major rubber compound: Silicone rubber
- Shape: Hollow sphere with 32 mm thick wall and 178 mm external diameter
- Equivalent mass: 2.5 kg ± 0.1 kg
- Rebound coefficient: 0.8 ± 0.1

Sound source for all kinds of acoustic measurements

Random Noise Generator
SF-06

- Generates white noise and pink noise and uses a 1/1 octave filter to produce band noise
- White noise and pink noise covers the 20 Hz to 20 kHz frequency range, and octave band noise uses center frequencies from 31.5 Hz to 8 kHz
- Applications include architectural acoustic measurements, sound absorption factor measurements in anechoic chambers, and sound insulation measurements

Specifications
- Output frequency range: White noise, Pink noise (bandwidth 20 Hz to 20 kHz), Octave band noise
- Output signal level: Approx. 5.6 Vrms
- Output level range: -60 dB to 0 dB
- Octave bands: 31.5 Hz to 8 kHz
- Power: 100 to 250 V AC (50/60 Hz), approx. 20 VA
- Dimensions, Weight: 168 (H) × 198 (W) × 270 (D) mm, approx. 3 kg

※ Contact RION distributors for recommendations on suitable powered speakers.