MIDI Hammer Mechanism

The completely new MIDI Hammer mechanism has been specially developed for carrying out architectural acoustics measurements of the impact and footfall sound. It generates the same footfall sound level as the standard hammer mechanism.
A hammer mounted in a DC magnet is excited with a frequency of 1 Hz – 20 Hz.

The frequency (1 Hz steps) and the impact force can be changed using a remote control unit.
The controlled drive of the hammer with a DC magnet allows the MIDI hammer mechanism to be used in all directions

Properties

- Small hammer mechanism (30 x 12 x 11) cm (fits on the step of all stairs)
- Weighs only approx. 8 kg
- Generates the same footfall sound level as the standard hammer mechanism
- Ideal for determining the joint insulation index of structural elements
- Measurement of the footfall sound insulation of floor screeds using a nail plate (with existing floor carpeting)
- Level gain in steps up to approx. + 4 dB compared with standard hammer mechanism (for e.g. highly insulating ceilings)
- Level attenuation in steps down to -10 dB compared with standard hammer mechanism (for e.g. delicate floor coverings)
- Replaceable hammer (e.g. with a rubber hammer to simulate walking noises)
- Variable impact frequency (1 Hz - 20 Hz)
- Excitation of individual pulses
- Can be employed in all directions (also inverted)
- Impact force is monitored during the measurement
- Remote control
- Very low operating noise
- Over 2 hours operation in battery mode

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