

Artificial Mastoid AM 535

Version: 1.0_20241106_EN



AM 535 is a device specifically designed for the measurement of bone conduction hearing aids and bone vibrators in hearing testing. It consists of a mechanical device that simulates the human head's mastoid process, featuring a high-sensitivity force sensor and a soft rubber surface, accurately replicating the mechanical impedance characteristics at the mastoid area. When used with an IEPE signal conditioner such as the MegaSig PM 0083, it achieves exceptional stability and accuracy.

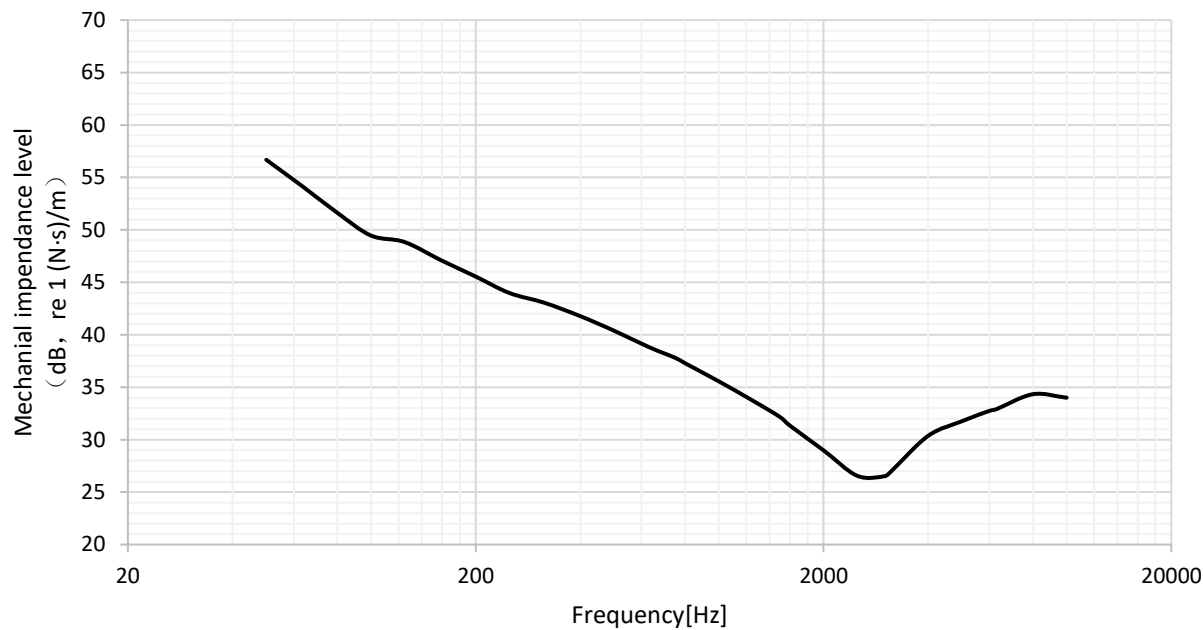
Feature

- The design complies with the requirements of IEC 60318-6:2007 for mechanical coupler used in the measurement of bone vibrators.
- Simulating the mechanical impedance characteristics of the human mastoid process.
- Adjustable clamping force.

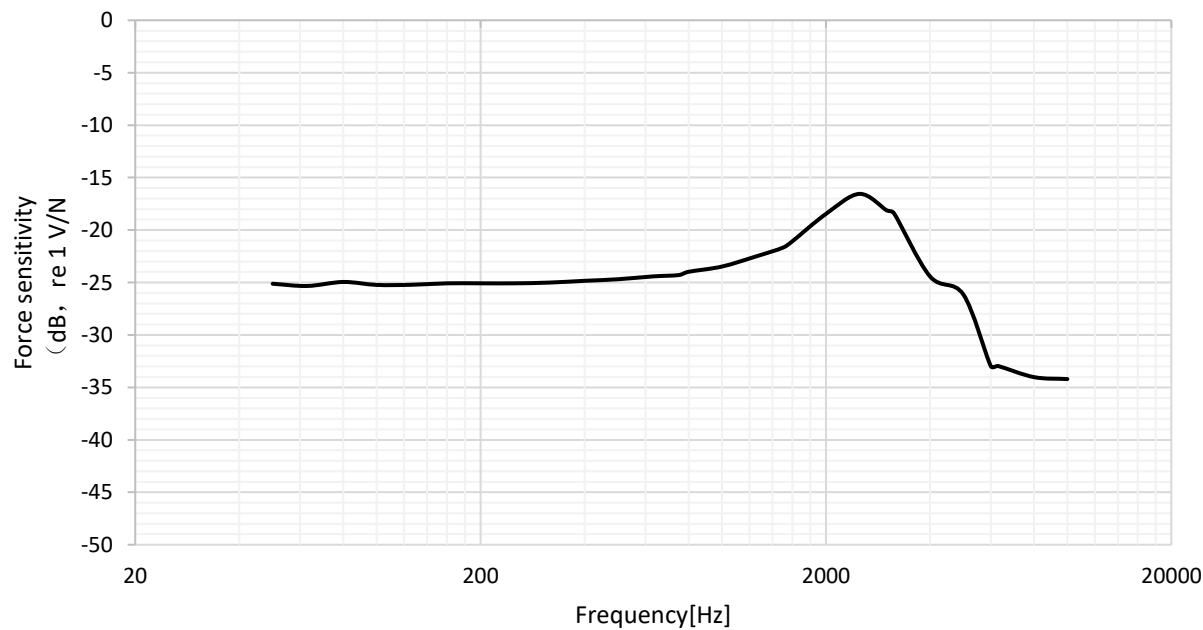
Specification

Built-in sensor	Dynamic force sensor
Sensitivity	4.3pC/N ±10%
Capacitance	80pF
Frequency range	50-10kHz (Complies with the force impedance level of IEC 60318-6:2007; dB, re 1 (N·s)/m)
5.4N phase angle at 250Hz	-63°±6°
Impedance difference between 5.4N and 2.5N at 250Hz	-2±0.9 (dB, re 1 (N·s)/m)
Output interface	Microdot/M5
Operating temperature range	22-24°C (Typical value of force impedance level)
Storage conditions	Temperature:25°C±5°C, humidity: 30%~70%RH

Frequency Response for Mechanical Impedance Level with 5.4N

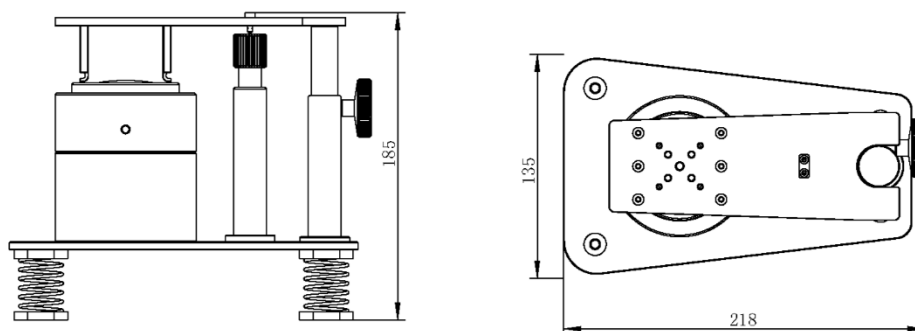


Frequency Response for Force Sensitivity with 5.4N



Physical Dimensions

Dimensions	218mm*135mm*185mm
Rigid Mass	3.5Kg
Total Mass	4.65Kg
Adjustable Static Force	2N-8N



Unit of measurement: mm

MegaSig reserves the right to change specifications and accessories without notice.



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