

Noise Equipment for Building Acoustics Measurements

Loudspeaker Systems OMNI and DIR

Power Amplifier AMG

Tapping Machine SLIM

Microphone Boom Rotation ROTOSTANDone



AMG

NOISE GENERATOR

The pink and white noise generator is integrated in the electronics of the amplifier AMG.

Using a digital switch, you can choose one of two sounds available and send it to the power amplifier.

POWER AMPLIFIER

The AMG was intended for release to the maximum available power source OMNI, and for this have been made available two integrated amplifiers to balance the sound output of OMNI. For the use of the DIR is used only one of the two amplifiers available.



KIT BATTERY (OPTION)

The AMG complete system is able to operate without an external power supply. By means of a simple connector you can get up to 60 minutes of runtime at full load using batteries Li.Po.

REMOTE CONTROL

The wireless system allows the use of AMG even at a distance! A remote control allows the switching on and off of the amplification system. Furthermore it has been programmed switching on and off delayed so as to facilitate the operations of Noise measurement with SLM in indoor.



AMG



TECHNICAL SHEET

Noise generator/ Amplifier

Power (1 channel) at 4Ω : **250 Watts rms**

ISTANT Power at 4Ω : **480 Watts rms**

THD : 0,1 % max

Signal/Noise S/N R: 92,5 dB

IMD: 0,004 % max

Slave rate SR: 19 V/ μ s

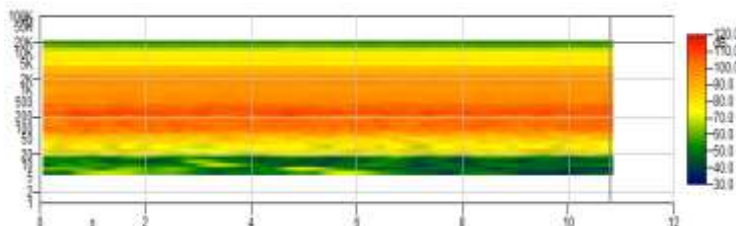
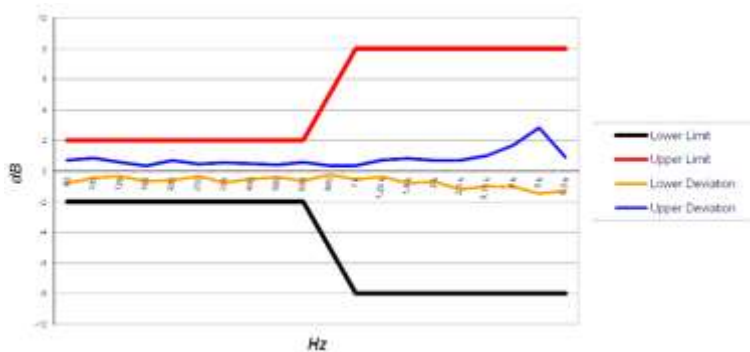
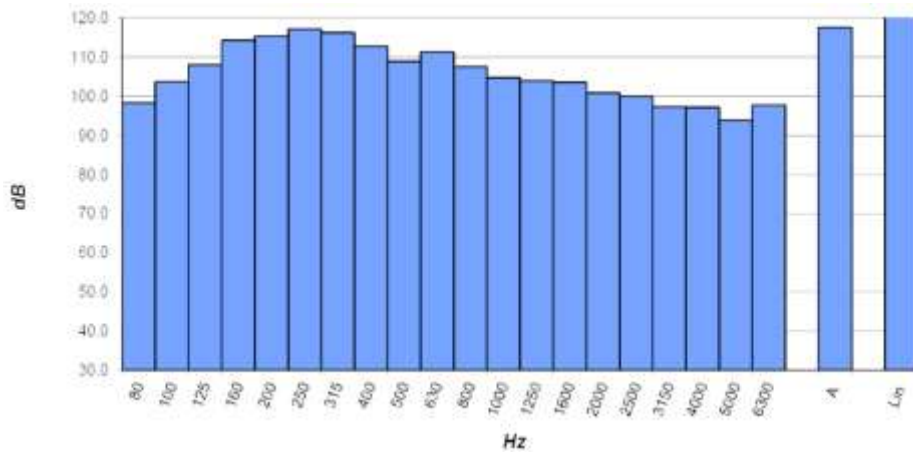
OMNI



The source dodecahedral OMNI is designed according to quality specifications and design consistent compliance with regulatory requirements such as UNI EN ISO 140.

Handling, ease of installation, transportation are prerequisites for the technician, so the source OMNI is the best compromise between weight / maneuverability ideal to be transported and moved during testing in building acoustics.

The OMNI source is supplied with a connection cable to the amplifier AMG 5 meters long. This allows to move, independent from the amplifier, OMNI within a indoor measuring .



DIR

The speaker Directive DIR stands for the bright color in line with the number of measuring instruments.

Great rugged, easy to transport capable of emitting a high noise level thanks to the powerful AMG.

TECHNICAL SHEET:

Frequency Response: 75 Hz - 20 kHz \pm 3 dB

LOW level: -3 dB 65 Hz

LOW level: -6 dB 49 Hz

Sensibility: 1 W @ 1 m: 95 dB SPL

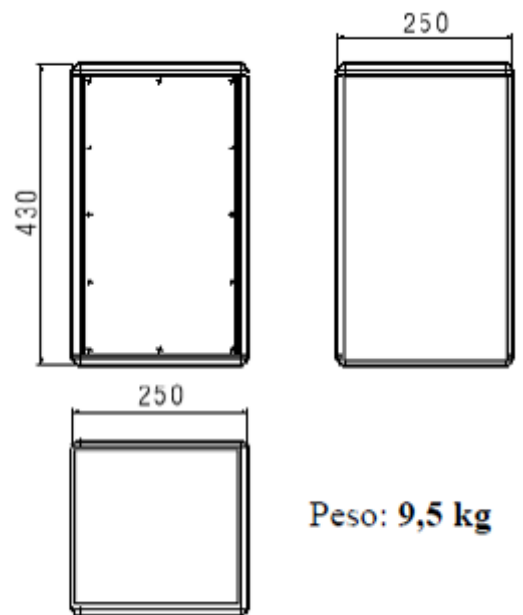
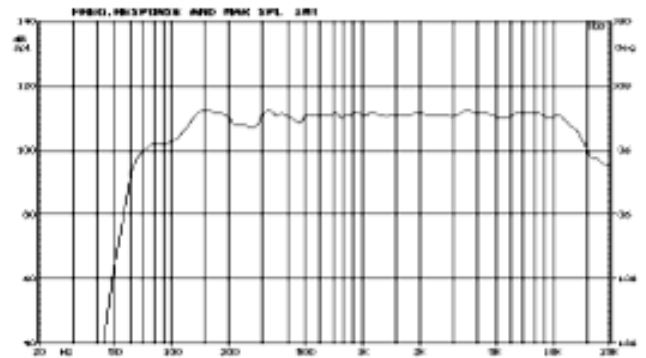
OUTPUT MAX: 114 dB SPL;

peack: 119 dB SPL

Impedance: 8 Ω

Power: aes: 250 W; continue: 155 W RMS

Coverage Angle (-6 dB): CONE





SLIM

SLIM is designed to meet regulatory standards on the measurement of the transmission of noise through impact.

ISO140-60 1998, ISO 140-7 1998,
ISO 140-8 1997, ISO 140-11 2005,
DIN 52210, ASTM 492 ISO717.

TECHNICAL SHEET:

sound source designed to meet the specific standards in the field of measurements of sound transmission from impact and meets the:

ISO 140, ASTM E 492, DIN 52210, BS 5821 ed ISO 717.

The unit uses 5 each 500g heavy hammers that fall freely from a height of 40mm.

The frequency of impact is of 10Hz is to say 10 beats per second.

The hammers are driven by a cam shaft and innovative silent rotated by an electric motor of suitable power with encoder revolutions of rear drive coupled to this with toothed belt and pulleys thus obtaining a uniform transmission powerful and constant over time.

The electronic control system is completely digital and easily controlled by the main console.

the weight is really contained in a little more than 9.9 kg





SLIM

ISO140-60 1998, ISO 140-7 1998,
ISO 140-8 1997, ISO 140-11 2005,
DIN 52210, ASTM E 492 ISO717.

The electronics is controlled by a microprocessor that manages the following functions:

- PWM power supply to the engine;
- The remote control of the machine with remote controller;
- Full control of the traction to maintain constant speed and power;
- Dual power supply / battery (internal).

The machine was made entirely of aluminum except for special parts and mechanical drive elements made of special steel.

The machine is supported by three fully adjustable anti-vibration rubber for leveling the instrument.

Finally, the machine is equipped with a practical soft cover to transport with attached side pocket for accessories and (option) a rugged fly-case.

The power of the machine and the service battery charging is managed by an external power adapter.



MICROPHONE REVOLVING



APPLICATIONS:

- ◆ BUILDING ACOUSTIC: ISO140
- ◆ REVERBERATION TIME: ISO354
- ◆ SOUND POWER: ISO3740 SERIE
- ◆ DIRECTIVITY MEASURE



The Microphone Revolving can be used as a standalone device to obtain the spatial average of the sound level by moving a measuring microphone back and forth constantly.

The main applications are in building acoustic measurements according to series ISO 140, the measurement of sound absorption in a reverberation room according to the specific instructions of the ISO 354 and the determination of sound power levels of sources using sound pressure according to the ISO 3741 series.

Docking the sound level meter directly on the shaft ensures very low noise levels and levels of electrical noise are maintained. You can also make response measures the direction of the acoustic transducers such as microphones and loudspeakers.

The unit is operated by a remote control. On delivery from the factory, you can choose the ideal programming:

sweep SLOW at $\pm 45^\circ$

seep FAST at $\pm 90^\circ$

Continue 360° with stop at 1s





