MÜLLER-BBM
ACOUSTIC SOLUTIONS

Spherical loudspeaker for mobile use and test facilities – loud and lightweight

m|dod 360A

Dodecahedral loudspeaker for acoustical measurements

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Dodecahedral loudspeaker for acoustical measurements

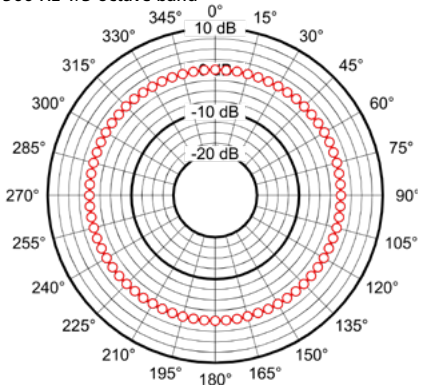
The spherical loudspeaker m|dod 360A was specifically designed for measurements in which high sound power is required. Due to its low mass and stable design, it is ideally suited for mobile use in building and room acoustics measurements as well as for measurements in the test facilities.

Comfortable, loud and light

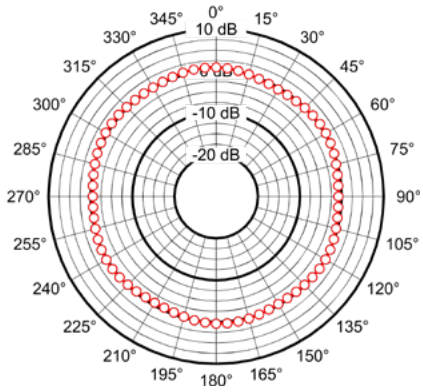
The dodecahedron m|dod 360A consists of a plastic sphere and loudspeakers with neodymium magnets and weighs 10.2 kg. It can still be easily carried with one hand and can still be used for measuring high sound attenuation levels in residential buildings, cultural buildings and schools.

The robust design of the loudspeakers is also ideally suited for operation in acoustic test facilities over long sonication periods.

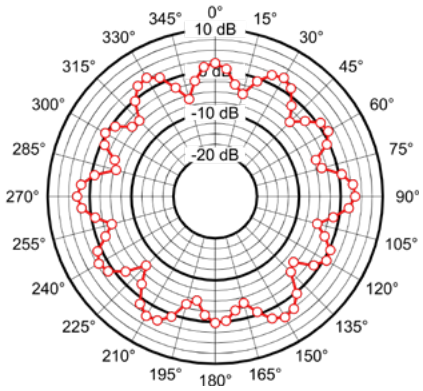
500 Hz 1/3 octave band



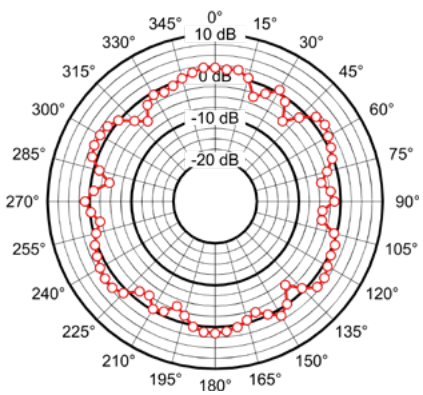
1000 Hz 1/3 octave band

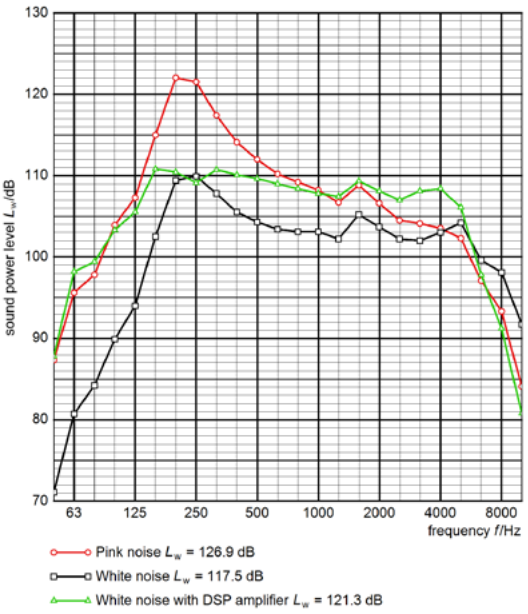


2000 Hz 1/3 octave band

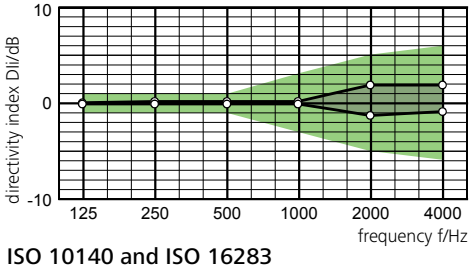


4000 Hz 1/3 octave band

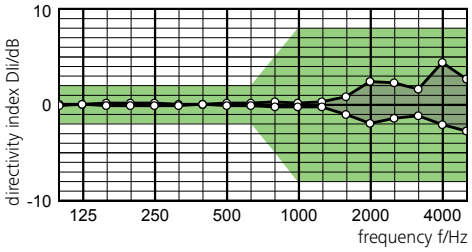




ISO 3382



ISO 10140 and ISO 16283



Uniform: the directivity

With its ball shape, all normative requirements on the source directivity are met.

- Building acoustical measurements according to ISO 10140 and ISO 16283
- Room acoustical measurements according to ISO 3382

Loud and flexible: the sound power level and frequency response

When excited with pink noise, a sound power level of L_W = 125 dB and with white noise L_W = 117 dB is achieved. The design of the loudspeaker is optimized for high sound power. The maximum useful power can be achieved if the frequency response is adjusted for the intended application using a commercially available amplifier with DSP (see diagram). In principle, the dodecahedron m|dod 360A can be operated with any audio amplifier with suitable impedance and power.

Technical specifications

- Shape: colored plastic ball with 12 loudspeakers with neodymium magnets
- Diameter: 360 mm
- Mass: 10.2 kg
- Impedance: 5 Ω
- Electrical power: 600 W
- Sound power level:
  with pink noise: L_W = 125 dB
  with white noise: L_W = 117 dB
- Connector: Speakon NL4FC

The order includes

- Dodecahedral loudspeaker
- Certificate of directivity

Optional accessories

- Loudspeaker stand, height up to the middle of the dodecahedral loudspeaker 77 cm to 160 cm
- Loudspeaker cable (length as ordered)

MÜLLER-BBM
ACOUSTIC SOLUTIONS

OUR PASSION

We offer you sophisticated and practice-approved measurement systems for special measurement tasks. Discover our products and become another happy customer.

OUR PROMISE

We do our best for you
We want you to be happy with us and come back to us at any time – that's why you are our focus.

OUR EXPERIENCE

Experience for more than five decades
Our acoustic measurement systems are a major factor in this success. Due to the constant development of the testing methods and measuring systems, we can offer our customers sophisticated measuring systems optimized for the testing task.

Comprehensive solutions from a single source

Consulting • Planning • Measuring • Expert Opinions • Research

Müller-BBM Acoustic Solutions GmbH is a subsidiary of Müller-BBM Holding AG headquartered in Planegg near Munich. Since 1962, Müller-BBM has provided consulting services to clients worldwide and has become one of the globally leading engineering firms in Germany. More than 400 highly qualified employees form an interdisciplinary team of engineers, architects and physicists in the most diverse specialist areas.

Müller-BBM Acoustic Solutions GmbH develops and produces measurement systems for acoustic test facilities. All products have been developed on the basis of daily use in our testing laboratories and therefore notably correspond to the needs of their users. The systems are optimized for special measurement tasks and enable an efficient and intuitive operation after a short training period. Plausibility-checking criteria are integrated into the measurement software in order to quickly evaluate the quality of the results, even in routine operation.

From the knowledge gained from participation in standardization committees, cooperation with colleges and universities and, last but not least, our own consulting activities, further developments of the test procedures and innovations are continuously integrated into the measurement systems. Due to constant further development in daily test stand operation, we can offer our customers optimized measurement systems for decades.

You may also be interested in the following measuring systems:

- **m|ars** Specific airflow resistance ISO 9053-1
- **m|abstube** Sound absorption in the impedance tube ISO 10534-2
- **m|abshall** Sound absorption in the reverberation chamber ISO 354
- **m|abssitu** In-situ sound absorption CEN/TS 1793-5 and 1793-6

Do you have any questions? We will be happy to assist you!

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