BAS001 Omnidirectional Source
Omnidirectional (Dodecahedral) Sound Source for Reverberation Time, Room Acoustic and Building Acoustic Measurements

**Highlights**

- Used for ISO 140-4, ISO 3382, DIN55210, ASTM E90, E336, E2235 compliant measurements
- High sound power level output
- Acoustically Isotropic Source
- Available lightweight & compact amplifier (BAS002E/U)

**Applications**

- Architectural Acoustics: In-situ Reverberation Time Measurement
- Building Acoustic Measurements
- Sound Insulation
- Evaluation of the Acoustic Indexes for the Transmission Loss of Horizontal or Vertical Partitions
- Sweep Response Technique

The BAS001 Source is designed to generate omni-directional sound fields for making standard compliant measurements including: architectural acoustics (ISO 3382), building acoustics (insertion loss, acoustic absorption area, etc: ISO 140-4, DIN 55210). The BAS001 is typically used to saturate a room with a uniform acoustic field. The available high-efficiency power amplifier has no fan for cooling, allowing measurements in quiet environments, like those in reverberation time applications.
Model BAS001

**Dodecahedral loudspeaker**

**Acoustic**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sound Power</td>
<td>118 dB re 1 pW</td>
</tr>
<tr>
<td>Sound Power</td>
<td>112 dB re 1 pW</td>
</tr>
<tr>
<td>Frequency</td>
<td>88 to 12.5 kHz</td>
</tr>
<tr>
<td>THD</td>
<td>0.1%</td>
</tr>
<tr>
<td>Directivity</td>
<td>±2 dB from 100 to 4kHz</td>
</tr>
</tbody>
</table>

**Physical**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
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<tbody>
<tr>
<td>Dimensions</td>
<td>Ø 300 mm max</td>
</tr>
<tr>
<td>Weight</td>
<td>9 kg</td>
</tr>
</tbody>
</table>

**Compliance**

- **Acoustic**
  - ISO 140-4: 1998 (dodecahedral source)
  - DIN 55210
  - ASTM E2235, E966, E1332

- **Electrical, EMC & Safety**
  - 2002/96/EC WEEE (RAEE) Electronic waste disposal
  - 2002/95/EC ROHS

**Order Information**

**Standard Accessories**

- Flight case for the omni-directional source
- Signal cable (speak-on – speak-on) for dodecahedral loudspeaker

**Optional Accessories**

- TRP021 Tripod for loudspeaker
- BAS002E/U Lightweight Power Amplifier

For environmental noise monitoring and building acoustics, Larson Davis offers a full line of instruments, accessories and software. For personal noise and vibration exposure monitoring, Larson Davis complements this with sound level meters, personal noise dosimeters, human vibration meters, audiometric calibration systems and hearing conservation programs.

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