



BAS003 Directional Source

Directional (Façade) Sound Source for Reverberation Time and Building Acoustics 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 Façade Measurements
- Building Acoustic Measurements
- Sound Insulation
- Evaluation of the Acoustic Indexes for the Transmission Loss of Façade Elements



Model BAS003

The BAS003 Source is designed to generate homogeneous sound fields using random noise in compliance with the following standards: architectural acoustics (ISO 3382, ASTM E2235), building acoustics (insertion loss, acoustic absorption area, etc: ISO 140-4/5, DIN 55210). The BAS003 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.



Compliance

Acoustic

- ISO 140-4: 1998 (dodecahedral source)
- ISO 3382-1: 2006, ISO 3382-2: 2008
- DIN 55210
- ASTM E2235, E966, E1332

Electrical, EMC & Safety

- 2002/95, 2002/96, and 2003/108/EC Directive
- 2004/108/EC Directive
- 2002/96/EC WEEE (RAEE) Electronic waste disposal
- 2002/95/EC ROHS

Order Information

Standard Accessories

- Flight case for the directional source
- Technical Manual & User Guide
- Signal cable (speak-on – speak-on) for dodecahedral loudspeaker

Optional Accessories

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

Directional loudspeaker		
Acoustic		
Sound Power	124 dB re 1 pW	not equalized
Sound Power	120 dB re 1 pW	80 - 5kHz equalized
Sound Pressure Level	95 dB (L) @10m	
Frequency	80 to 12.5kHz	operating range
THD	0.1 %	
Amplitude Linearity	±1dB from 80 to 5kHz	
Directivity	20° @ -3 dB	
Physical		
Dimensions (wxhxd)	300 x 300 x 300 mm	11.8 x 11.8 x 11.8 in
Weight	7.5 kg	16.5 lb

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