



# BAS003 Directional Source

Directional (Façade) Sound Source for Building Acoustics Measurements

## Highlights

- Used for ISO 140-3, ASTM E90, ISO 140-5, ASTM E966 compliant measurements
- High sound power output level
- Insertion loss of Noise Barriers
- Available lightweight & compact amplifier (BAS002E/U)
- Shipping case standard

## 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

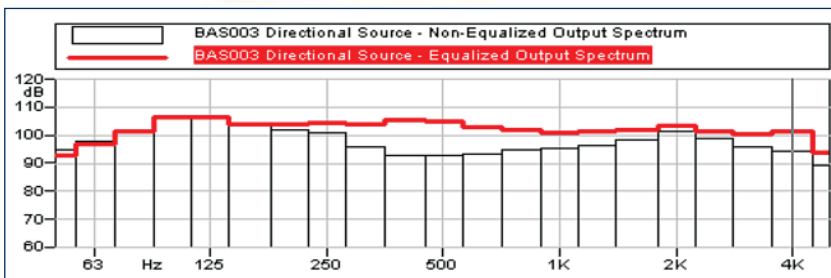
The BAS003 Source is designed to generate homogeneous sound fields using random noise in compliance with the following standards: Building acoustics (insertion loss, acoustic absorption area, etc: ISO 140-3, ASTM E90, ISO 140-5, ASTM E966). The BAS003 is typically used to generate a noise in a free-field for the evaluation of the transmission loss index of a façade. The available high-efficiency power amplifier, BAS002, is light and can be remotely controlled for easy use in the field.



Directional Loudspeaker

Acoustic

Sound Power	113 dB re 1 pW (not-equalized) 116 dB re 1 pW (equalized 50-5kHz)
Sound Pressure Level	95 dB(Z) at 10 m
Operating range	50 – 12.5 kHz
THD	0.1%
Amplitude linearity	±1 dB from 50 to 5 kHz
Directivity	20° at -3 dB
Weight	7.5 kg (16.5 lbs) speaker only 16 kg (35 lbs) speaker, case, cable
Carrying case (CCS044)	
Dimensions (wxdxh)	370 x370x390 mm (14½ x 14½ x 15¼ in)
Weight	7.7 kg (17 lbs)
Speak-on Cable	
Length	10 m
Weight	0.7 kg (1.7 lbs)



Equalized Output Power (dB)

Compliance

Acoustic

LAB - airborne: ISO 140-3, ASTM E90  
 FIELD - indoor/outdoor: ISO 140-5, ASTM E966

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

Ordering Information

Standard Accessories

CCS044 Flight Case for Directional Source  
 Technical Manual & User's Guide  
 Signal Cable (speak-on to speak-on), 10m

Optional Accessories

TRP023 - Heavy Duty Loudspeaker Tripod  
 BAS002E/U - Lightweight Power Amplifier  
 BAS001 - Omnidirectional Speaker

Optional Accessories



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