

MODEL BAS001

OMNIDIRECTIONAL SOUND SOURCE

- Used for ISO 140-4, ISO 140-3, ISO 3382, DIN55210, ASTM E90, E336, E2235, C426 compliant measurements
- High sound power level output
- Acoustically Isotropic Source
- Available lightweight & compact amplifier (BAS002E/U)

TYPICAL APPLICATIONS

- Room acoustics: In-situ reverberation time measurements
- Building acoustics measurements
- Sound insulation
- Evaluation of the acoustic indexes for the transmission loss of horizontal or vertical partitions
- Sweep response technique

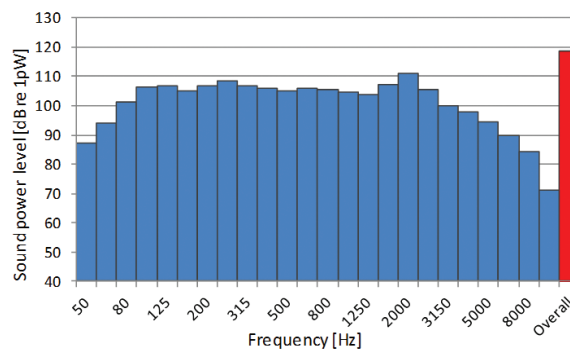
ROOM AND BUILDING ACOUSTICS

The BAS001 Sound Source is designed to generate omnidirectional sound fields for making standard compliant measurements including: reverberation time (ISO 3382, ASTM E2235), building acoustics (insertion loss, acoustic absorption area, etc: ISO 140-4 ISO 140-3, ASTM E336, ASTM E90, DIN 55 210). 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. The included carrying and shipping case is designed to provide dependable protection for the BAS001 dodecahedral speaker in demanding conditions for many years.

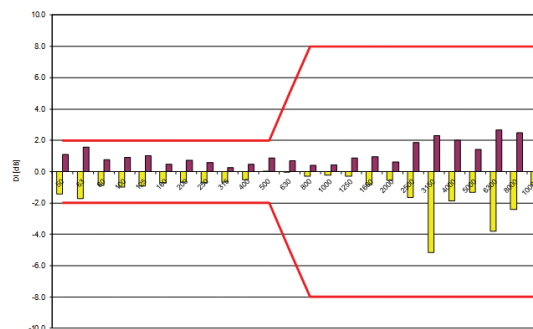
Pairing the Larson Davis Model 831 sound level meter with Reverberation Time option (831-RT) aids you in multiple architectural acoustics applications ranging from simple experimental reverberation time determination for room performance, to calculating absorption coefficients for material performance. Most of the time, these measurements are dictated by various international standards.

Model 831 measures the decays and then computes the reverberation time according to ISO 3382-2 or ASTM 2235-04 standards. When using the Interrupted Noise method, the Model 831 not only triggers the data acquisition, but its built-in Noise Generator can be used to drive the omni-directional sound source. Recent trends show that the Integrated Impulse method is gaining popularity and Model 831 handles the acquisition of the decays and the subsequent T20 or T30 calculations completely and with ease.

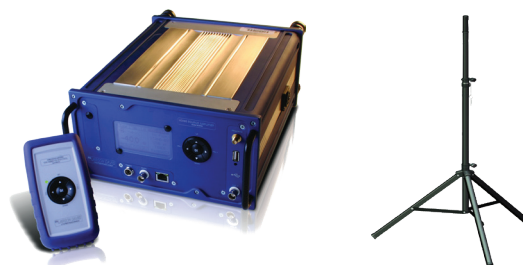
SPECIFICATIONS	
Performance	
Sound Power	117 dB re 1 pW (not-equalized) 109 dB re 1 pW (equalized 50-5 kHz)
Sound Pressure Level	95 dB(Z) at 10 m
Operating Range	50 ~ 12.5 kHz
THD	0.1%
Amplitude Linearity	±2 dB from 50 to 5 kHz
Directivity	20° at -3 dB
Compliance	
Acoustic	LAB - adjacent room: ISO 140-3, ASTM E90
	FIELD - adjacent room: ISO 140-4, ASTM E336
	Absorption Coefficient: ISO 354, ASTM C426
	Reverberation Time: ISO 3382, ASTM E2235
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
Physical	
BAS001	
Dimensions (H x W x D)	370 x 370 x 390 mm (14.5 x 14.5 x 15.3 in)
Weight	24.5 kg (54 lb)
Carrying Case (CCS044)	
Dimensions (H x W x D)	370 x 370 x 390 mm (14½ x 14½ x 15¼ in)
Weight	7.7 kg (17 lb)
Speak-on Cable	
Length	10 m
Weight	0.7 kg (1.7 lb)
Supplied Accessories	
Flight Case for Omni-directional Source	
Technical Manual & User's Guide	
Signal Cable (speak-on to speak-on), 10 m	
Optional Accessories	
TRP023	Heavy Duty Loudspeaker Tripod
BAS002E/U	Lightweight Power Amplifier
BAS003	Directional Speaker (Façade)



1/3 octave band sound power levels – The overall value is 119 dB re 1 pW



Minimum and maximum shift of the directivity index as a function of frequency according to ISO 140 standard.



Optional Accessories

The BAS002 (left) and TRP023 (right) are the recommended accessories for the BAS001.