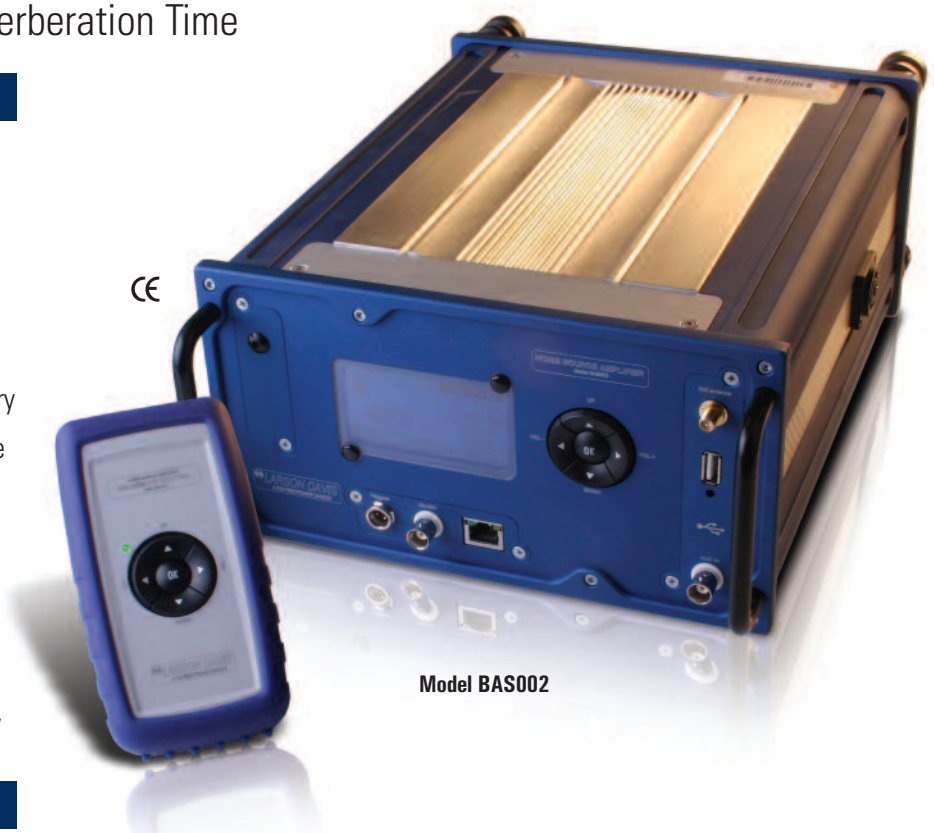
BAS002 Amplifier

Amplifier used with BAS001 or BAS003 for Measurement of Building Acoustics & Reverberation Time

Highlights

- Compact, Lightweight Design
- 500W Output Power
- 5 Hz to 60 kHz bandwidth
- THD + N < 0.12%
- Remote control
- Arbitrary waveform using USB memory
- Pre-programmed pink and white noise
- Fast and easy-to-use
- Utilize the 831 noise generator for fully automated reverberation time measurement
- Fully compliant with Standards: ROHS, CE, ISO 140, ISO 3382, ASTM E90, ASTM E336, ASTM C426, ASTM E2235



Model BAS002

Applications

- Reverberation Time
- Building Acoustics
- Absorption Coefficient
- Room Acoustics

Measurement of reverberation time, sound isolation, and absorption coefficient are generally important measurements when verifying that a space or material complies with design goals. When making these measurements in the field or laboratory it is important to have equipment that is dependable, portable and easy to set up and use. When coupled with the BAS001 omnidirectional speaker or BAS003 directional speaker, the BAS002 amplifier is the ideal sound source for making room and building acoustics measurements.

For a complete measurement system, use the Larson Davis Model 831 sound level meter configured with the 831-RT reverberation time measurement software in order to easily make in-field measurements. Add DNA software and enable computation of a variety of building acoustic metrics compliant with ISO and ASTM standards with results that can be quickly composed into a fully customizable report.

For Use with Optional Speakers:

Model BAS001

Model BAS003

Specifications

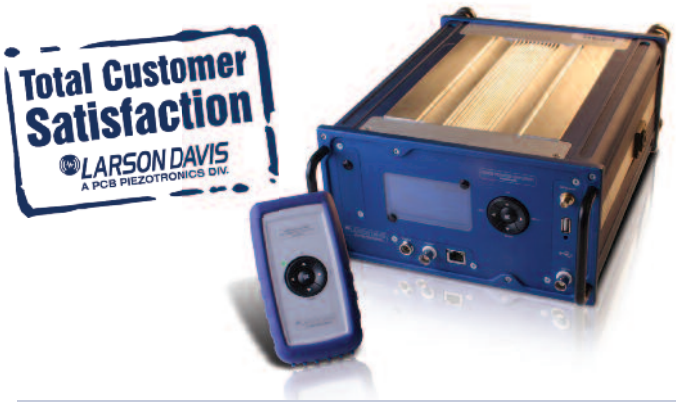
BAS002 Amplifier		
Acoustic Standards		
ISO 140-3	When used with BAS001	
ISO 140-4	When used with BAS001	
ISO 140-5	When used with BAS001 or BAS003	
ISO 3382-1	When used with BAS001	
ISO 3382-2	When used with BAS001	
ISO 354	When used with BAS001	
ASTM E90	When used with BAS001	
ASTM E336	When used with BAS001 or BAS003	
ASTM E966	When used with BAS003	
ASTM E2235	When used with BAS001	
DIN 52 210	When used with BAS001 or BAS003	
Power		
BAS002-U	90 - 132.5 VAC, 55 - 65 Hz	
BAS002-E	190 - 265 VAC, 45 - 55 Hz	
Connectors		
Analog In	Connector	BNC
	Input Voltage	+/-10 Vpk (max)
	Input Impedance	100 kΩ
Analog Out	Connector	BNC
	Output Voltage	+/- 10 Vpk (max)
	Output Impedance	50 Ω
Speaker	Connector	Neutrik Speak-on 4-pole
Digital I/O	Connector	Mini XLR 3-pin male
	Pin 1 (trigger out)	0 - 5 VDC, 30 mA max Pulse on start and stop
	Pin 2 (Ground)	0 VDC
	Pin 3 (Trigger input)	0 - 5 VDC, 30 mA max Pulse high to start and stop
Physical		
Dimensions	12.2 x 9.4 x 4.7 in	31 x 24 x 12 cm
Weight	8.8 lbs	4 kg
Compliance		
Low Voltage Directive	2006/95/EC	
EMC Directive	2004/108/EC	
	IEC 60065 6'th Ed	
Low Voltage	IEC 60101-1	
	UL 6500 2'nd Ed	
FCC	FCC part 15b	Class A
EMC Emissions	IEC 61000-6-4	
EMC Immunity	IEC 61000-6-1	
CE		
ROHS		

Remote Control Specifications

Frequency	Industrial, Scientific, and Medical (ISM) frequency band (2.400 GHz–2.4835 GHz) based on Direct Sequence Spread Spectrum (DSSS) technique
Channels	10, 30, 50, 70 (selectable via software)
Power	7 levels: 15, 13 (default), 10, 6, -1, -6, -10, -14 dBm EIRP
Compliance	"Modular Approval (MA) Grant for Cypress module CYWM6935 valid in the USA, Canada, Belgium, Denmark, France, Finland, Germany, Italy, Netherlands, Spain, Sweden, UK..
	It is intended for systems compliant with world-wide regulations covered by
	ETSI EN 301 489-1 V1.4.1, ETSI EN 300 328-1 V1.3.1 (European Countries);
	FCC CFR 47 Part 15 (USA and Industry Canada)
	ARIB STD-T66 (Japan).
Power	PP3 9V, alkaline or Lilon
Controls	- Left/right: decrease / increase volume (-80, -75, -70...-30, -25, -20, -19, -18, -17...-3, -2, -1, 0 dB)
	- up/down: change/select file
	- central OK button: source toggle on/off
	- ON/OFF Switch
LED Indicator	green flashing: in range, stopped
	green fixed: in range, playing
	red fixed: out of radio range

Ordering Information

BAS002-U	90-132.5 VAC, 55-65 Hz
BAS002-E	190-265 VAC, 45-55 Hz
Standard Accessories	
Flight Case for Amplifier	
Technical Manual & User's Guide	
Power Cord	
USB Key with Signal Sources	
Remote Control w/ Antenna	
Optional Accessories	
TRP023 - Heavy Duty Loudspeaker Tripod	
BAS001 - Omnidirectional Speaker	
BAS003 - Directional Speaker	
CBL 180 - 831 AC out to BAS002 Analog In, 6 ft (2m)	
CBL181 - BNC M-M 50 ft (15.2m) extension cable, for use with CBL180	
CBL182 - Speak-on Extension Cable, 50 ft (15.2m)	



LARSON DAVIS
A PCB PIEZOTRONICS DIV.
3425 Walden Avenue, Depew, NY 14043-2495 USA
Phone 716-926-8243
Toll-Free in USA 888-258-3222
Fax 716-926-8215 **E-mail** sales@larsondavis.com
Web Site www.larsondavis.com

ISO 9001 CERTIFIED

LD-BAS002-0812 Printed in U.S.A.

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.

Visit **www.larsondavis.com** *to locate your nearest sales office*