



## MODEL BAS002

# BUILDING ACOUSTICS AMPLIFIER

- Fully compliant with Standards: ROHS, CE, ISO 140, ISO 3382, ASTM E90, ASTM E336, ASTM C426, ASTM E2235
- Compact, Lightweight Design
- Arbitrary waveform using USB memory
- Pre-programmed pink and white noise
- Utilize the 831 noise generator for fully automated reverberation time measurement

## TYPICAL APPLICATIONS

- Reverberation time
- Building acoustics
- Absorption coefficient
- Room acoustic

## AMPLIFIER FOR BAS001 & BAS003

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.

BAS002 offers:

- 500 W Output Power
- 5 Hz to 60 kHz bandwidth
- THD + N <0.12%
- Remote Control

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.

SPECIFICATIONS		
<b>Acoustics Standards</b>		
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	
<b>Power</b>		
BAS002-U	90 - 132.5 VAC, 55 - 65 Hz	
BAS002-E	190 - 265 VAC, 45 - 55 Hz	
<b>Connectors</b>		
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 kΩ
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.
<b>Compliance</b>		
Low Voltage Directive	2006/95/EC	
EMC Directive	2004/108/EC	
	IEC 60065 6 <sup>th</sup> Ed	
Low Voltage	IEC 60101-1	
	UL 6500 2 <sup>nd</sup> Ed	
FCC	FCC part 15b	Class A
EMC Emissions	IEC 61000-6-4	
MC Immunity	IEC 61000-6-1	
CE		
ROHS		

SPECIFICATIONS (continued)		
<b>Physical</b>		
Dimensions (H x W x D)	12.2 x 9.4 x 4.7 in	31 x 24 x 12 cm
Weight	8.8 lb	4 kg
<b>Remote Control Specifications</b>		
<b>Frequency</b>	Industrial, Scientific, and Medical (ISM) frequency band (2.400 GHz–2.4835 GHz) based on Direct Sequence Spread Spectrum (DSSS) technique	
<b>Channels</b>	10, 30, 50, 70 (selectable via software)	
<b>Power</b>	7 levels: 15, 13 (default), 10, 6, -1, -6, -10, -14 dBm EIRP	
<b>Compliance</b>	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)	
<b>Power</b>	PP3 9V, alkaline or Lilon	
<b>Controls</b>	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	
<b>LED Indicator</b>	green flashing: in range, stopped	
	green fixed: in range, playing	
	red fixed: out of radio range	
<b>Ordering Information</b>		
<b>BAS002-U</b>	90-132.5 VAC, 55-65 Hz	
<b>BAS002-E</b>	190-265 VAC, 45-55 Hz	
<b>Supplied Accessories</b>		
Flight Case for Amplifier		
Technical Manual & User's Guide		
Power Cord		
USB Key with Signal Sources		
Remote Control w/ Antenna		
<b>Optional Accessories</b>		
<b>TRP023</b>	Heavy Duty Loudspeaker Tripod	
<b>BAS001</b>	Omnidirectional Speaker	
<b>BAS003</b>	Directional Speaker	
<b>CBL180</b>	831 AC out to BAS002 Analog In, 6 ft (2 m)	
<b>CBL181</b>	BNC M-M 50 ft (15.2 m) extension cable, for use with CBL 180	
<b>CBL182</b>	Speak-on Extension Cable, 50 ft (15.2 m)	



3425 Walden Avenue, Depew, NY 14043 USA

larsondavis.com | sales@larsondavis.com | 888 258 3222 | +1 716 926 8243

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