







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.

CE

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SPECIFICATIONS			
Acoustics 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			
	Connector	BNC	
Analog In	Input Voltage	+/- 10 Vpk (max)	
	Input Impedance	100 kΩ	
	Connector	BNC	
Analog Out	Output Voltage	+/- 10 Vpk (max)	
	Output Impedance	50 kΩ	
Speaker	Connector	Neutrik Speak-on 4-pole	
	Connector	Mini XLR 3-pin male	
Digital I/O	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.	
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		
MC Immunity	IEC 61000-6-1		
CE			
ROHS			

SPECIFICATI	ONS (continued))	
Physical			
Dimensions (H >	(W x D)	12.2 x 9.4 x 4.7 in	31 x 24 x 12 cm
Weight		8.8 lb	4 kg
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		
	Left/right: decrease / increase volume (-80, -75, -7030, -25, -20, -19, -18, -173, -2, -1, 0 dB)		
Controls	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 Inform	ation		
BAS002-U	90-132.5 VAC, 55-65 Hz		
BAS002-E	190-265 VAC, 45-55 Hz		
Supplied Acces	sories		
Flight Case for A	mplifier		
Technical Manua	al & User's Guide		
Power Cord			
USB Key with Si	gnal Sources		
Remote Control	w/ Antenna		
Optional Access	sories		
TRP023	Heavy Duty Loudspeaker Tripod		
BAS001	Omnidirectional Speaker		
BAS003	Directional Speaker		
CBL180	831 AC out to BAS002 Analog In, 6 ft (2 m)		
CBL181	BNC M-M 50 ft (15.2 m) extension cable, for use with CBL 180		
CBL182	Speak-on Extension Cable, 50 ft (15.2 m)		

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