MODEL BAS002
BUILDING ACOUSTICS AMPLIFIER

- 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

#### 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
- 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
  - 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
- IEC 60065 6’th Ed
- IEC 60101-1
- UL 6500 2’nd Ed
- FCC: FCC part 15b
- Class A
- IEC 61000-6-4
- IEC 61000-6-1

#### Physical
- Dimensions (H x W x D): 12.2 x 9.4 x 4.7 in
- Weight: 8.8 lb

#### 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

#### Ordering Information
- BAS002-U: 90-132.5 VAC, 55-65 Hz
- BAS002-E: 190-265 VAC, 45-55 Hz

#### Supplied Accessories
- Flight Case for Amplifier
- Power Cord
- USB Key with Signal Sources
- Remote Control w/ Antenna

#### Optional Accessories
- TRPD023: Heavy Duty Loudspeaker Tripod
- BAS001: Omnidirectional Speaker
- BAS003: Directional Speaker
- CBL 180: 831 AC out to BAS002 Analog In, 6 ft (2 m)
- CBL 181: BNC M-M 50 ft (15.2 m) extension cable, for use with CBL 180
- CBL 182: Speak-on Extension Cable, 50 ft (15) m

Larson Davis offers a full line of noise and vibration measurement instrumentation such as Class 1 and 2 sound level meters, outdoor noise monitoring systems, personal noise dosimeters, human vibration meters, audiometric calibration systems, microphones and preamplifiers, and data analysis software. Instrumentation is used in community and environmental noise monitoring, measurement of building acoustics, managing worker exposure to noise and vibration, and various automotive, aerospace, and industrial applications. Larson Davis is a division of PCB Piezotronics, Inc., a wholly owned subsidiary of MTS Systems Corporations.