

Bio-Acoustic Simulators

The performance of all the BA-202 Models is consistent and dependable. These simulators eliminate the problems and disadvantages inherent with using a human test subject for making the daily biological check of audiometers. Although the simulators don't eliminate the need to check for clicks, scratches or other extraneous noises, they do provide reliable reading each and every time. These simulators have the capability of checking manual, automatic and microprocessor audiometers. In addition, the BA-202-25 and BA-202-27 measure audiometric room background noise in octave bands.

Key Benefits:

- **Immediate Cost Savings** - The BA-202 will help eliminate the cost and uncertainty of using human subjects for biological checks
- **Flexibility** - Use the BA-202 with manual, automatic and microprocessor audiometers
- **Monitor Background Noise** - Continuously monitor room background noise in octaves (Model BA-202-25 or BA-202-27)
- **No Special Earphone Needed** - The simulators can be used with standard earphones, with or without audiocups

Specifications:

Test Frequencies: 125 Hz to 8 kHz

Background Test Levels (BA-202-25): 40 dB at 0.5 kHz and 1 kHz; 47 dB at 2 kHz; 57 dB at 4 kHz; and 62 dB at 8 kHz (per OSHA, Fed. Reg. March 8, 1983)

Background Test Levels (BA-202-27): 35 dB at 125 kHz, 25 dB at 250 Hz, 21 dB at 500 Hz, 26 dB at 1000 Hz, 34 dB at 2000 Hz, 37 dB at 4000 Hz and 8000 Hz

Calibration: 60 dB HL +/- 1 dB at 1 kHz continuous tone with TDH-39, 49, or 50 earphone

Accuracy: Repeatable to within 2 dB when using an audiometer with a continuously variable HL control. When using automatic audiometers, the BA-202 will be repeatable within the HL step increments of the audiometer (usually 5 dB)

Transducers: Two electret elements



- **Simple Display** - The simulator has two color-coded LED's that ensure easy operation and comprehension of results
- **Patient Switch Simulation** - Simulate patient switch with normally open or normally closed contacts
- **Power Options** - The unit can be either battery or line-powered
- **Extremely Portable** - The unit is so light-weight and portable that it can even be wall-mounted if needed

Response Output: Normally open and normally closed relay contacts (SPDT 3 wire output)

Hysteresis: 10 dB +/- 1 dB between ON and OFF indication for the LEFT/RIGHT headphone indicators when used with continuous tone input

Relay Specifications: 250 mA current, 30 volts AC or DC. 20 million operations

Power: 9-volt alkaline battery (Optional 120-volt or 220-volt power adapter) Low battery indicator when used in battery mode

Size: 6.8" x 6.5" x 4.2" (173 x 165 x 107 mm)

Weight: 1.63 lbs. (739g); not including the remote microphone

Approvals: CE Mark