

Specifications:

Test Frequencies: 500, 1000, 2000, 3000, 4000, and 6000 Hz. 8000 Hz is optional.

Frequency Accuracy: Crystal controlled, less than 1% error at all frequencies.

Frequency Sequence: Start either ear, 1000, 500, 1000 retest, 2000, 3000, 4000, 6000, (optional 8000). Second ear, 500, 1000, 2000, 3000, 4000, 6000 (and 8000 optional).

Intensity Range: From 0 dB to 90 dB Hearing Level (HL) in 5 dB steps.

Attenuator Linearity: Less than 0.75 dB error for any 5 dB step, less than 1 dB error for any 10 dB step, less than 2 dB accumulated error relative to the calibration level.

Tone Rise/Fall Times: 44/32 ms typical.

Test Paradigm: Modified Hugheson Westlake in the automatic mode with fully manual override capability.

Testing Time: On a cooperative individual or a biological simulator, approximately 5 ½ minutes (testing 8 kHz.).

Stimulus Characteristics

A - Pulse train is 1.2 seconds with 50% duty cycle (200 ms on and 200 ms off) with three pulsed tone presentations.

B - Time between tone presentations is varied randomly between 1 and 2 seconds.

C - Patient response window is 1.8 seconds from the beginning of the pulse train.

D - Pulse train terminates when response switch is depressed.

Error Warnings: Audible alert (when active) with visual display of specific error encountered. The following error conditions are detected and signaled.

A - Threshold not established at 1000 Hz, first ear.

B - Retest failure at 1000 Hz.

C - Patient responding when no tone is being presented.

D - Switch not released.

E - Failure to establish threshold within allotted time (pause and alert optional at this error).

Audiometer Calibration: All audiometer calibration parameters will meet ANSI S3.6 1996 Standard for Audiometers and OSHA 29 CFR 1910.95. Output levels are calibrated through secured keyboard entry.

Safety: Listed to UL544 Standard for Medical and Dental Equipment and CSA C22.2 No. 125-M1984 Environment Products/Health Care Technology.

Earphone: Telephonics Corporation TDH -49 earphones with MX-41/AR cushions.

Power Requirements: 120 VAC, 60 Hz, 32 VA

Physical Dimensions: 2.75" high, 7.5" wide, 9" deep.

Net Weight: Unit, 2.6 lbs; Earphone, 1 lb; Transformer, 1.2 lbs.