



Audiological Service & Supply Company
800-755-8272
Audiometry.com
Monitor Audiometers

The MI-7000

The MI-7000 is a microprocessor controlled screening audiometer designed specifically for use in industrial hearing conservation programs. It is both flexible, and very easy to use. It can be programmed to meet the demands of very large scale programs where extensive demographic data must be collected, stored, printed and downloaded with threshold values to a computer data base, yet be quickly reprogrammed to allow the operator to press one button to start and print a completed test with no further data entry or control manipulations. Programmed options are battery-backed, and remain in effect



until changed by the operator. Tones are generated and controlled entirely by digital circuits, allowing the output levels of the MI-7000 to be adjusted by through secured keyboard entry. The LCD display simultaneously shows all thresholds established for both ears, as well as on-going test conditions.

Includes many of the features of the MI-5000B:

- Built in talk over with automatic pause while in use
- Serial port for external communication
- Excellent immunity to low line voltages
- Rugged construction
- Small, lightweight, portable
- Allows for field calibration of output levels
- Three frequency threshold averaging on printouts
- Capability for switching from automatic to manual as needed
- Options to start either ear and whether to test 8 kHz.
- 'Listening' test controlled by the patient response switch from inside the booth
- Elapsed test time printed on test results
- Flags on printout show which thresholds were determined manually
- Error messages displayed on the screen in easily understood terms
- Pause and Resume capability
- Compatible with numerous hearing conservation software packages

Plus additional Features:

- Fast, quiet built in printer
- Test storage capability
- Battery-backed time and date clock
- Time and date of test printed on test results
- Selected patient demographics printed on test results
- Wide operating voltage range, automatically adapts to both domestic and foreign supply
- Numeric keypad for additional demographic/data entry
- Menu selection for setting programmable options that allow:
 - Changing operator certification number (printed on test)
 - Using the operator certification number
 - Using date of birth, gender, type of test and other demographics
 - Using pulsed or continuous tone stimulus
 - Printing a test automatically after completion
 - Pausing and alarming on certain error conditions
 - Setting the RS-232 output format
 - RS-232 data string compatible with either MI-5000 or MI-6000 format
 - Adjustable audible alert for end of test and error conditions
 - Quick printout of all current audiometer settings

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Fax: 773-4274863

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 pulse train 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: Unit is powered by Safety Extra Low Voltage (SELV) input from a UL listed detachable power supply.

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

Power Requirements: 100-240 VAC, 47-63 Hz, 1A

Physical Dimensions 3" high, 9.5" wide, 11.5" deep. Requires 3" of space in rear of unit for paper roll.

Net Weight: Unit, 5 lbs; Earphone, 1 lb; Power Supply, 1 lb.

Standard Equipment:

MI-7000 Audiometer with Printer

Earphone Assembly

Patient Response Switch

Power Supply

AC Power Cord

Patch Cords (2)

Paper Roll (2)

Operator Manual