

Automatic Audiometer AS216

- Efficient Hearing Examinations



Features

- Fully portable
- 11 frequencies 125Hz - 8kHz
- -10dB to 120dBHL output
- Standard TDH39 headset
- Insert phones (optional)
- Bone conductor (optional)
- Silent stimulus switch
- Automatic threshold test
- Pure, warble and pulsed tones
- Built-in talk forward
- LCD display
- PC on-line monitoring available
- RS232 connection for PC
- DataBase software available
- NOAH compatible
- Various printing options
- Carrying case (optional)
- Noise reducing headset (optional)

Applications

Occupational health surveillance requires fast and reliable testing together with easy data management. The manual or automatic test facility on the AS216 when used with the RS232 computer interface and the optional DataBase software is ideally suited for this purpose. The Talk Forward function makes the AS216 easy to work with particularly in sound cabin installations. Portability is assured by its light weight construction and optional carrying case, which conveniently holds the AS216 with all parts included. In the clinic basic audiometric testing can be carried out automatically. If connected to our MT10/MTP10 impedance system, a comprehensive set-up, which includes a thermal printer, is at hand.

Automatic Testing

In addition to traditional manual testing, the AS216 incorporates a Hughson Westlake patient controlled automatic threshold test complying with ISO 8253. When the test is completed the results are easily recalled from the internal memory of the AS216. Alternatively the audiogram may be transferred to a PC for DataBase storage or printout. With this PC connection you can also monitor the test in real time. If the AS216 is connected to our MTP10 printer the audiogram can automatically be printed when the auto threshold test is completed.



Interconnections



General Technical Specifications

Standards:

Audiometer: EN 60645 -1, ANSI S3.6, Type 4
Safety: EN 60601-1

Medical CE-mark:

Interacoustics A/S meets the requirements of the Annex VI of the Medical Device Directive 93/42/EEC. Approval is made by TÜV – identification no. 0123.

Audiometer Type: 4

Calibration: AC: ISO 389-1 (TDH39), ISO 389-2 (EARTone3A), BC: ISO 389-3.

Frequencies and Maximum Hearing Levels:

| Hz | AC dBHL | AC dBHL | BC dBHL |
|------|---------|-----------|---------|
| | TDH39 | EARTone3A | B71 |
| 125 | 90 | 90 | |
| 250 | 110 | 105 | 45 |
| 500 | 120 | 110 | 65 |
| 750 | 120 | 115 | 70 |
| 1000 | 120 | 120 | 70 |
| 1500 | 120 | 120 | 70 |
| 2000 | 120 | 120 | 75 |
| 3000 | 120 | 120 | 80 |
| 4000 | 120 | 115 | 80 |
| 6000 | 120 | 100 | 55 |
| 8000 | 110 | 95 | 50 |

Extended Range Function: If not selected, the AC output will be limited to 20dB below maximum output.

Input: Tone, Warble Tone +5%, 5Hz (true sine wave frequency modulation).

Outputs: Left, Right, Bone L+R, Insert Phones

Transducers: TDH39 Audiometric Headset (standard), EAR-Tone 3A Insert Phones (optional), B71 Bone Conductor (optional).

Talk Forward: Built in talk forward microphone. 0-110dB SPL. Continuously adjustable on operation panel.

Tone Presentation: Manual or Reverse. Pulsed 250-5000 msec. on/off.

Auto Threshold: Patient controlled Hughson Westlake procedure according to ISO 8253-1.

Frequency Selection: 125Hz, 250Hz, 750Hz, 1500Hz or 8kHz may freely be deselected if a quicker test routine is desired.

Store Function: Internal memory for AC L/R and BC L/R.

Display: Numerical Display

Patient Signal: Reed relay push button

Interface: Bi-directional RS232C. Output for MTP10 Printer

Examples of Compatible Windows Software:

IaBaseII database program. PrintView for on-line PC monitoring and printing.
NOAH hearing aid fitting software.
CONNEX hearing aid fitting software.

Construction: Plastic cabinet

Attenuator and Frequency controls: Rotary switches (Push buttons optional)

Power Supply: External UPS400 (included). 100 - 240V.

Consumption: 40 VA

Dimensions: (WxDxH) 300 x 230 x 90mm/ 12x9x4 inches

Weight: 1.3kg/2.9lbs. (external power supply UPS400 + 0.8kg/1.8lbs.)

Air freight packing: 1 case: 73x36x17 cm/ 29x14x4 inches.
Gross weight: 5.2 kg/11.5 lbs.

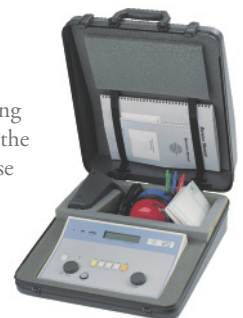
Included Parts:

TDH39 Audiometric Headset
(Peltor noise reducing headset may be supplied)
APS2 Patient Response Button
UPS400 External Power Supply
AF12 200 Audiogram charts
Set of 3 pens
Operation Manual
Service Manual
Multilingual CE instructions for use

Optional Parts:

21925 Amplivox Audiocups Noise Excluders
50250 Peltor Noise Excluders (may be supplied at no extra cost)
ACC26 Carrying Case
EARTone3A Audiometric Insert Phones
B71 Bone Conductor
IFC59 (25 pins) computer cable
IFC69 (9 pins) computer cable

The lightweight carrying case ACC26 will hold the AS216 as well as a noise reducing headset and audiogram charts etc.



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