



Otowave : 102-1 : 102-4

Hand Held Portable Tympanometers

- Fast accurate middle ear measurements
- Ergonomic shape
- Totally portable
- Intuitive use
- Large graphics display
- Programmable reflex test
- Optional portable printer and PC interface
- No external power or data cables

The **Amplivox Otowave** is shaped for success in accurate middle ear measurements.

Ergonomics

Elegantly shaped to follow the contours of a hand and with a perfect weight distribution, tests can be completed with confidence and accuracy.

Ease of Use

The **Otowave** is very intuitive to use with on-screen information displayed before, during and after the test. The compliance peak, compliance peak pressure, gradient, ear canal volume and an ipsi lateral reflex test will be measured within seconds. The programmable reflex test can be configured for one frequency (1KHz) for the Otowave 102-1 and four (500, 1KHz, 2KHz and 4KHz) for the Otowave 102-4.

Recording results

Results are displayed for review on a large high-resolution graphics display. Results can be:

- saved within internal memory with a patient identifier,
- printed via an infra-red connection to the optional portable printer

- transferred to a PC with an IrDA port, NOAH3 database with the optional Amplivox impedance module.

Portability

Lightweight and weighing just 380g, the **Otowave** is designed to be a totally portable "go anywhere" instrument which is reliable, accurate and easy to use. The **Otowave** requires no external power or data cables.



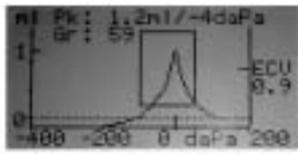


Standard accessories

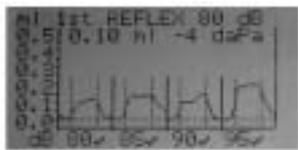
- Calibration cavities
- 4 x 1.5V alkaline 'AA' batteries
- Operating manual
- Set of disposable ear-tips
- Carrying case

Optional accessories

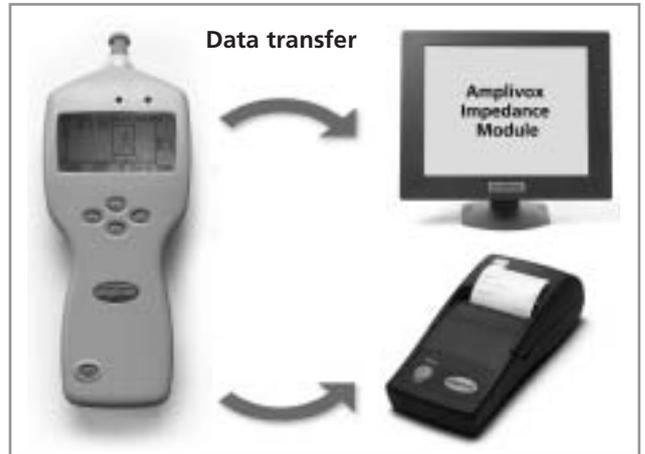
- High speed portable thermal printer
- Amplivox NOAH3 impedance module
- Additional sets of disposable ear-tips



Tympanometer Measurement
When testing children, very fast, accurate middle ear measurements are essential. The advanced technology within the Otowave makes this requirement possible.



Acoustic Reflex Measurement
The Amplivox Otowave provides a comprehensive user-defined reflex measurement facility. This programmable function includes reflex selection, levels and sensitivity. The large display area facilitates a graphical display of the reflex response and a pass/fail result.



Technical Specification

TYMPANOMETRY MEASUREMENTS

Probe tone: 226Hz +/-0.1%, 85dB +/-2dB
Pressure range: +200daPa to -400daPa +/-10daPa
Direction of sweep: positive to negative
Volumetric range: 0.2 to 5ml +/- 0.01ml or 10% over range whichever is greater
Analysis performed: Compliance peak level, compliance peak pressure level, gradient and equivalent ear canal volume.

REFLEX MEASUREMENTS

Otowave 102-1: 1KHz +/-0.1%
Otowave 102-4: 500Hz, 1KHz, 2KHz & 4KHz +/-0.1%
Reflex dB range: 85 to 100 dBHL (programmable in 5 or 10 dB steps)
Reflex measurement range: 0.01ml to 0.5ml +/- 0.01ml
Analysis performed: Reflex maximum amplitude and pass/fail at each test level.

DATA MANAGEMENT

Internal database

- 30 patient records
- Patient record identification
- Data transfer to designated printer/PC application

Printing

Designated printer: MCP8830 high speed portable thermal printer
Data transfer: Infra-red IrDA 9600 Baud
Printing may also be completed via a PC with the relevant applications.

Electronic data storage: database PC requirements

- NOAH3 aud module
- Amplivox impedance module
- infra-red PC port

POWER

Battery specification: 4x Alkaline AA or 4x NiMH (>=2.3Ah) rechargeable

DIMENSIONS

Physical dimensions:
210 long x 80 wide x 40mm high envelope.
Weight (including batteries): 380g

STANDARDS CONFORMITY

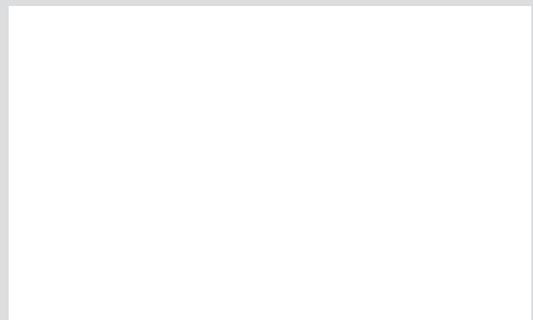
The Amplivox Otowave conforms to the appropriate sections of the following standards;

- Safety: EN60601-1: 1990
EMC: EN 60601-1-2: 1993
Impedance: EN60645-5:2005 Type 2 tympanometer
CE Mark
To Medical Device Directive 93/42/EEC (Annex V).

The Amplivox policy is one of continuous development and consequently the equipment may vary in detail from the description and specification in this publication.

amplivox

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