

Handy, Lightweight
and Easy to Use

**OTOWAVE
TYMP**

102 / 202 / 202H

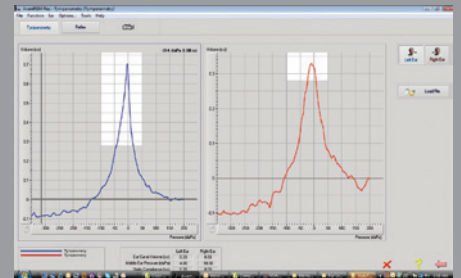
Otowave Tymp Tests can be
completed with confidence
and accuracy

Wireless, Hand-Held Tympanometers

The MedRx Otowave 102 and 202 form a comprehensive
range of screening and diagnostic Tympanometers

MedRx Otowave Tymp

- Fast and accurate middle ear measurement
- Programmable 4-frequency reflex test
- PC-Interface
- Large, high resolution display
- Lightweight and portable
- Ergonomic design
- NOAH™ compatible
- MedRx AVANT™ compatible



The results will be displayed in high
resolution on an easy to read screen and
can be internally stored or transferred to
a PC where the results can be saved in the
AVANT impedance module.

OTOWAVE TYMP

MedRx Tympanometry *Otowave 102*

Specs

MedRx Otowave Tymp 102

Hand-Held Screening Tympanometry

This wireless hand-held Tympanometer with large screen provides 226 Hz probe tone impedance measurement including 4 acoustic reflex frequencies. Results are stored internally (up to 30 records). All data can be transferred to a PC via the MedRx software module and IR dongle. The software is NOAH™ compatible.

Features

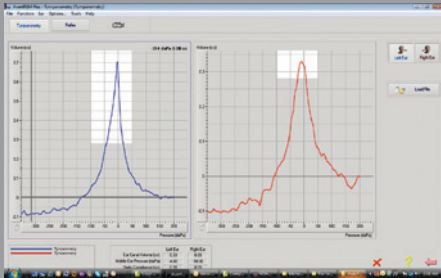
- Fast and accurate IPSI-lateral middle ear measurement
- Lightweight and portable, ergonomic design
- PC-Interface (IR dongle)
- Large, high resolution screen
- Programmable 4-frequency reflex tests; 500, 1000, 2000 and 4000 Hz
- Supplied in a convenient carrying case
- NOAH™ compatible

Standard Accessories 102

- Rugged transportable carrying case
- Test cavities
- Set of disposable eartips
- 4 x 1.5V rechargeable NIMH batteries
- Battery charging system
- Operator's Manual

Optional Accessories

- Wireless IR Printer
- Infra-red USB adapter



Screen shot of the results shown
in the MedRx Tymp software

Convenient Carrying Case



MedRx Tympanometry

Otowane 202 / 202-H

MedRx[®]
Precision Audiometric Instruments
www.medrx-usa.com

Functionality

There are two versions of the Otowane 202 available:

The standard Otowane 202 provides 226 Hz probe tone impedance measurements together with a user programmable range of both ipsi and contra lateral reflex test measurements at 500 Hz, 1 kHz, 2 kHz and 4 kHz.

The Otowane 202-H option features a comprehensive range of test functions including user defined 226 Hz and 1 kHz probe tone impedance measurements and a user programmable range of both ipsi and contra lateral reflex test measurements at 500 Hz, 1 kHz, 2 kHz and 4 kHz.

Advanced Tympanometry

The Otowane 202 provides fast, objective middle ear measurements to assist with the identification of middle ear disorders in neonates, children and adults. When using the Otowane 202 in 226 Hz probe tone mode, the compliance peak, compliance peak pressure, gradient and ear canal volume can be measured within seconds.

When using the Otowane 202-H option in 1 kHz probe tone mode, users can easily select a preferred display by simply pressing the probe function key to switch between:

- Scalar mode: a traditional admittance tympanogram (Y only compensation)
- Vector mode: a tympanogram displaying B-G compensation
- Component mode: the separate admittance (Y), susceptance (B) and conductance (G) measurements are displayed for clinical review. The ear canal volume is displayed whenever 1 kHz mode is selected.



Specs

MedRx Otowane Tymp 202 / 202H

Standard Accessories 202 / 202-H

- Test cavities
- 4 x 1.5 V Alkaline AA batteries
- Contralateral transducer
- Set of disposable ear tips
- Carrying Case
- MedRx NOAH impedance module
- USB cable, Mains adapter, Operating Manual

Features

- IPSI and Contra lateral middle ear measurement
- Lightweight and portable
- External probe, 226 Hz and 1 kHz (202-H) probe tone
- Large, high resolution screen
- Data transfer to PC via USB cable
- Programmable 4-frequency reflex tests: 500 Hz, 1 kHz, 2 kHz and 4 kHz.
- Scalar mode: a traditional admittance tympanogram, (Y only compensation)
- Supplied in a convenient carrying case
- NOAH™ compatible

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Welcome to the New Generation.

**The Wireless
Tympanometers
102-202-202H**

OTOWAVE TYMP

About MedRx

MedRx, Inc. is a U.S. based global manufacturer and innovator of advanced computerized diagnostic and hearing instrument fitting technologies, specifically designed for the hearing care professional.

MedRx has created a remarkable New Generation of discreet, yet powerful PC-based instrumentation for Audiometry, Real Ear Measurement, Live Speech Mapping, Hearing Instrument Testing & Evaluation and Video Otoscopy.

Technical Specifications

	Otowave Tymp 102	Otowave Tymp 202-202H
Tympanometry Measurements	Probe Tone Levels: 226 Hz \pm 2%, 85 dB SPL \pm 2 dB, over range 0.2 ml to 5 ml	Probe Tone Levels: 226 Hz \pm 2%, 85 dB SPL \pm 2 dB 1000 Hz \pm 2%; 79 dB SPL \pm 2 dB (202-H only) over ear canal volume range
Pressure Range	+200 daPa to -400 daPa \pm 10 daPa	+200 daPa to -400 daPa \pm 10 daPa or \pm 10% (whichever is larger) over range 0.1ml to 5ml
Ear Volume Measurement Range	0.2 ml to 5 ml \pm 0.01 ml or 10 % (whichever is larger) over entire range	226 Hz: 0.2 ml to 5 ml ; 1000 Hz: 0.1 ml to 5ml \pm 0.1ml or \pm 5% (whichever is larger)
Reflex Measurement Range Reflex DB Range	500 Hz, 1 kHz, 2 kHz, 4 kHz Frequency \pm 0.1 % 85 to 100 dBHL (programmable in 5 or 10 dB steps)	Ipsilateral and contralateral or both User-selectable from: 500 Hz, 1 kHz, 2 kHz and 4 kHz (\pm 2 %) Reflex levels: Ipsilateral: 70 dBHL to 110 dBHL (\pm 3dB) Contralateral: 70 dBHL to 110 dBHL (\pm 3dB)
Reflex Measurement Range	0.01 ml to 0.5 ml \pm 0.01 ml configurable in 0.01 ml steps	0.01 ml to 0.5 ml \pm 0.01ml configurable in 0.01ml steps
Standards	Safety IEC 60601-1; EMC IEC 60601-1-2 Impedance IEC 60645-5 Type 2 Tympanometer ANSI 3.39 CE Mark Complies to EU Medical Device Directive	Safety IEC 60601-1; EMC IEC 60601-1-2 Impedance IEC 60645-5 Type 2 Tympanometer ANSI S3.39 CE Mark Complies to EU Medical Device Directive
Power	Battery 4 x Alkaline AA cells or 4 x NiMH (\leq 2.3Ah) rechargeable	Mains: 100-240 VAC; 50/60 Hz via mains adapter (approved in medical safety standards); Batteries: 4 x AA (either Alkaline or NiMH, the latter recharged external to the instrument)
Dimensions	Approx. 21 x 8 x 4 cm	Base unit: 19 x 8.5 x 4 cm (excluding connections) Probe: 13 x 2.5 cm (max.) diameter
Weight	380 Gram	Base unit: 330 g (without batteries, using mains power), 430 g (with batteries), Probe: 110 g (incl. connecting cable)

