

Middle Ear Analyzer MI 44

For Diagnostic Impedance and Reflex measurement



- Manual and automatic pump control
- Tympanometry with selectable pressure ranges and pump speeds
- Ipsi- and contralateral Reflex Tests - now with tone and noise
- Reflex Decay Test and ETF Test for intact and perforated eardrums
- High Frequency Probe Tones: 678 Hz, 800 Hz, 1000 Hz
- Exchangeable Probe Insert for Screening and Diagnostic use
- USB PC interface

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General Technical Specifications

Fast diagnosis of the middle ear

The MI 44 middle ear analyzer is built to meet the demands of clinics and hearing specialists who require a comprehensive middle ear analysis instrument.

Tests

Tests include ipsi- and contralateral reflex tests and reflex decay. Eustachian Tube Function tests may be performed on patients with intact or perforated eardrums.

High frequency tympanometry

The MI 44 offers high frequency probe tones of 678 Hz, 800 Hz and 1000 Hz.

Manual pump control

For additional diagnostic investigations MI 44 offers automatic and manual pump control tympanometry with selectable pressure ranges and pump speeds.

Automatic functions

The intensity of the four frequencies of the reflex test is increased automatically until a reflex is detected or the maximum is reached. The maximum level is adjustable to protect sensitive ears. The reflex test is performed at the pressure where the maximum compliance was detected.

The results

All test results can be printed out on the internal thermal printer. All parameters can be preset as per individual requirements.

Probe

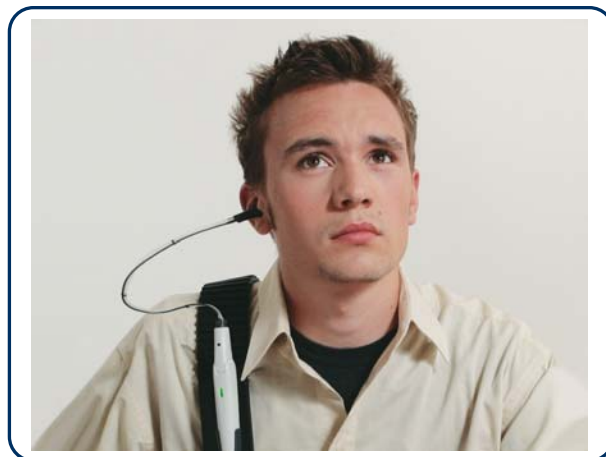
The new, adjustable probe system features a convenient detachable probe tip that can be used for both diagnostic and screening purposes.

Easy, comfortable to operate

The probe seal in the ear is easily checked with the built-in indicator light. The tympanogram and test results are displayed in real time on the graphical LCD screen. The test results for both ears are stored and can be printed out together.

Standard accessories:

Probe with diagnostic and screening insert, TDH 39 contra phone, shoulder strap, ear tip set, calibration cavity with probe holder, mains cable, roll of paper, connector cover



Technical data

Tympanometry mode:
 Probe frequency, intensity 226 Hz \pm 1%, 85 dB_{SPL} into 2 cm³
 High frequency 678 Hz / 800 Hz / 1000 Hz
 Pressure range automatic + 200 to - 400 daPa, manual + 200 to - 600 daPa


Volume range 0,1 to 6,0 ml
 Accuracy \pm 5% or \pm 10 daPa
 Test time < 3 seconds

Reflex Mode:
 Test frequencies 500, 1000, 2000, 4000 Hz \pm 2%
 Noise Stimuli WN / HP / LP
 Test method ipsilateral, contralateral
 Intensities ipsilateral 70 ... 105 dB_{HL}
 Intensities contralateral 70 ... 110 dB_{HL} with button contra phone
 70 ... 120 dB_{HL} with TDH 39 contra phone

Ipsilateral reflex test with AGC
 Intensity setting automatic or manual

Reflex Decay Mode:
 Test time 13 sec., 10 sec. auto tone present

Eustachian Tube Mode:
 Pressure range + 300 to - 400 daPa

General:
 Standard IEC 601-1, IEC 645-5 class 1, medical directive 93/42/EEC 

Test program Reflex test selectable
 Memory Storage of test results for both ears
 Menu For adapting to individual needs (Pump speed, accuracy, reflex mode etc.)

Probe Lightweight adjustable hand-held probe with built-in control light and switch

Printer fast, virtually silent thermal printer

Print time 4 s / 12 s (Test results of both ears)

Display Graphic LCD-Display, contrast adjustable

Power supply Mains 100... 240 V~, 50/60 Hz, 25 VA

PC Interface USB

Dimension and weight W x D x H: 39 x 29 x 11 cm / 2,6 kg

SPECIFICATION CAN BE SUBJECT TO CHANGE WITHOUT NOTICE

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