For Diagnostic Impedance and Reflex measurement
Middle Ear Analyzer MI 44

- 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
The Reference for efficient Middle Ear Examination
Diagnostic Middle Ear Analyzer MI 44

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: | 226 Hz ± 1%, 85 dB SPL into 2 cm³  |
| High frequency | 678 Hz / 800 Hz / 1000 Hz |
| Pressure range | automatic + 200 to - 400 daPa  |
| Volume range | 0,1 to 6,0 ml |
| Accuracy | ± 5% or ± 10 daPa |
| Test time | < 3 seconds |
| Reflex Mode: |  |
| Test frequencies | 500, 1000, 2000, 4000 Hz ± 2% |
| Noise Stimuli | WN / HP / LP |
| Test method | ipsilateral, contralateral |
| Intensities ipsilateral | 70 ... 105 dB HL |
| Intensities contralateral | 70 ... 110 dB HI with button contra phone |
| Ipsilateral reflex test | 70 ... 120 dB HI with TDH 39 contra phone |
| Intensity setting | with AGC |
| Reflex Decay Mode: | automatic or manual |
| Test time | 13 sec., 10 sec. auto tone present |
| Eustachian Tube Mode: | + 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

Specifications are subject to change without notice