

# The Reference for Impedance and Reflex Testing

## Middle Ear Analyzer MI 34 and MI 34 H



- MI 34 H with 1000 Hz High Frequency Probe Tone
- Fast, automatic tests - Tympanogram in 3 seconds
- Ipsi- and contralateral reflex testing with 4 frequencies
- Reflex decay testing
- Eustachian tube function test for intact and perforated eardrums
- Handheld, adjustable probe for diagnostic and screening purposes
- Graphical realtime display
- Fast, virtually silent printout of test results

# The Reference for Impedance and Reflex Testing

## Middle Ear Analyzer MI 34 and MI 34 H

### Fast Middle Ear Diagnosis

Fast, easy to operate and automatic -

MI34 and MI 34 H are designed for screening and diagnostic applications.

### MI 34 H - High Frequency Tympanometry

The MI 34 H includes a high frequency probe tone of 1000 Hz which is ideal for providing reliable results when testing newborns and young children.

### Advanced Functions

The MI 34 and MI 34 H perform automatic impedance tests along with multi-frequency, multi-level reflex screening. The models allow diagnostic testing of reflex decay and the Eustachian Tube. Eustachian Tube function tests may be determined on patients with intact or perforated eardrums.

### Versatile, adjustable Probe

The adjustable probe can be used for both diagnostic and screening purposes. The probe tip can easily be adapted corresponding to individual requirements.

### 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.

### Automatic Functions

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

### Optional Accessories / Disposables

Carrying case		Part No.705014
Soft-side carrying case		Part No.10353002
Printer paper	1 roll	Part No.705078
1 set of Eartips yellow (7 mm)	10 pcs.	Part No.705056
1 set of Eartips green (9 mm)	10 pcs.	Part No.705057
1 set of Eartips white (11mm)	10 pcs.	Part No.705058
1 set of Eartips yellow (13mm)	10 pcs.	Part No.705059
1 set of Eartips green (15mm)	10 pcs.	Part No.705060
1 set of Eartips blue (18 mm)	10 pcs.	Part No.705061

### Standard access.MI34:

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



MI 34 with Screening Probe, TDH 39- Contra phone and connector cover

### Technical data

Tympanometry mode:	
Probe frequency, intensity	226 Hz $\pm$ 1%, 85 dB SPL into 2 cm <sup>3</sup>
High Probe freq. MI 34 H	1 kHz $\pm$ 1%
Pressure range	+ 200 to - 400 daPa
Volume range	0,1 to 6,0 ml
Accuracy	$\pm$ 5% or $\pm$ 10 daPa
Test time	< 3 seconds
Reflex Mode:	226 Hz
Test frequencies	500, 1000, 2000, 4000 Hz $\pm$ 2%
Test method	ipsilateral, contralateral
Intensities ipsilateral	70 ... 105 dB HL
Intensities contralateral	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 2, 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
PC-interface	USB
Power supply	Mains 100 ... 240 V~, 50/60 Hz, 25 VA
Dimension and weight	W x D x H: 39 x 29 x 11 cm / 2,6 kg



Specifications are subject to change without notice



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