

The reference for Impedance and Reflex Decay **Middle Ear Analyzer MI 34**



- Ergonomic design - easy, comfortable to operate
- Fast, automatic test (only 3 seconds for one tympanogram)
- LCD screen displays tympanogram and test results immediately
- Fast, virtually silent printout of test results
- Ipsi- and contralateral reflex test with 4 frequencies
- Graphical realtime reflex display
- Reflex decay testing
- Eustachian tube function test



Fast - easy to operate - automatic - advanced Middle ear analysis with **MI 34**

Fast diagnosis of the middle ear

The **MI 34** middle ear analyzer performs fast impedance and ipsi- and contralateral reflex tests - a tympanogram takes only three seconds. The fast, virtually silent printer offers a printout of the test result within only 4 seconds.

Versatile, adjustable probe

The new, adjustable probe of the **MI 34** can be used for both diagnostic and screening purposes. The diagnostic probe tip can easily be adapted corresponding to your requirements. In addition the probe offers a wide flexibility for the handling. The probe tip can either be adjusted to straight, pen type (0° angle) operation or to 60° and 85° angle. An integrated switch allows to change the measurement of the test ear directly at the probe. The integrated light changes to red (right ear) or blue (left ear) respectively.

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 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.

Advanced functions

The **MI 34** offers in addition to the impedance and reflex measurements the reflex decay test and the eustachian tube function test. If measured, these test results are printed out together with the tympanogram and reflex test results. All parameters can be preset as per individual requirements.

Optional accessories / disposables

TDH 39 contralateral phone with headband	Part No.	4 6 8 2
Carrying case	Part No.	7 0 5 0 1 4
Soft-side carrying case	Part No.	10353002
Printer paper	1 roll	Part No. 7 0 5 0 7 8
Eartips yellow (7 mm)	1 pc.	Part No. 7 0 5 0 5 6
Eartips green (9 mm)	1 pc.	Part No. 7 0 5 0 5 7
Eartips white (11 mm)	1 pc.	Part No. 7 0 5 0 5 8
Eartips yellow (13 mm)	1 pc.	Part No. 7 0 5 0 5 9
Eartips green (15 mm)	1 pc.	Part No. 7 0 5 0 6 0
Eartips blue (18 mm)	1 pc.	Part No. 7 0 5 0 6 1



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

Technical data

Tympanometry mode:

Probe frequency, intensity	226 Hz ± 1%, 85 dB SPL into 2 cm ³
Pressure range	+ 300 to - 600 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%
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

Intensity setting automatic or manual

Reflex Decay Mode:

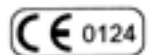
Test time 13 sec., 10 sec. auto tone present

Eustachian Tube Mode:

Pressure range + 400 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

Power supply

Mains 96 ... 240 V~, 50/60 Hz, 25 VA

Dimension and weight

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

Standard access. MI34:

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

Specifications are subject to change without notice



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