

easyTymp

Handheld Middle Ear Analyzer – Pro Version

The device has been enhanced to include diagnostic testing capabilities

Test Protocols

All available test protocols can be easily selected with one hand. Available test protocols: tympanometry with 226 Hz; ipsi- and contralateral reflexes (automatic or single intensity), reflex decay measurements and eustachian tube testing (ETF). The optional high frequency probe tone of 1 kHz is ideal for providing reliable results when testing infants.

Extensive Storage

The internal memory of the easyTymp Pro Version stores more than 1000 measurements. With the impedance software, data can also be transferred to a PC.

easyTymp Pro Version Cradle

The optional cradle serves as a docking station and re-charger and is ready to insert the eartipbox.

Features at a glance

- Very fast and reliable impedance measurements
- Probe tone 226 Hz, optional high frequency probe tone 1 kHz
- Reflex frequencies 500 Hz, 1 kHz, 2 kHz, 4 kHz (ipsi- and contralateral)
- Reflex decay testing (ipsi- and contralateral)
- Eustachian tube function (ETF) test for intact and perforated eardrums
- Automatic tests – self-explanatory to use
- Full color, high resolution display
- Stores more than 1000 measurements



Technical Data

TYMPANOMETRY

Probe Frequency	226 Hz ± 1%, 85 dB _{SPL} in 2 cm ³
High Frequency	1000 Hz ± 1%, 69 dB _{SPL} in 2 cm ³
Pressure Range	-400 to +200 daPa
Accuracy of Pressure	± 5% or ± 10 daPa
Volume Range	0.1 to 8.0 ml
Compliance Range	0.1 to 8.0 ml at 226 Hz 0.1 to 15.0 mmho at 1000 Hz
Test Time	< 6 seconds

ACOUSTIC REFLEXES

Test Frequencies	500, 1000, 2000, 4000 Hz ± 3%
Test Method	Ipsi- and contralateral
Intensities Reflexes	70 to 100 dB _{HL}
Intensity Settings	Automatic or single intensity

REFLEX DECAY

Test Frequencies	500, 1000, 2000, 4000 Hz ± 3%
Test Time	10 sec. auto tone presentation
Test Method	Ipsi- and contralateral
Intensity Reflexes	Ipsilateral 70 - 110 dB _{HL} Contralateral 70 - 120 dB _{HL}

ETF NON PERFORATED

Pressure Range	-400 to +200 daPa
-----------------------	-------------------

ETF PERFORATED

Probe Frequency	226 Hz ± 1%, 85 dB _{SPL} in 2 cm ³
Test Time	30 sec. auto tone presentation

OPT. HIGH FREQUENCY	Tymp 1 kHz; Tymp 1 kHz + Auto Reflex; Tymp 1 kHz + Reflex 80 dB BB
----------------------------	--

GENERAL

Memory	1 curve per ear and test
Storage	> 1000 measurements
Display	Full color graphic LCD-Display
Dimensions/ Weight	W x D x H: 80 x 300 x 70 mm / 427 g

OPTIONAL CRADLE

Dimensions	W x D x H: 150 x 295 x 110 mm
Power	100 - 240 VAC, 50/60 Hz

OPTIONAL PRINTER

Type	2 inch thermal dot matrix
Weight	197 g
Data Transfer	Wireless

STANDARDS

IEC 60601-1, Class II, Type B	
IEC 60601-1-2, IEC 60645-5	
according to medical directive 93/42/EEC	

STANDARD COMPONENTS

easyTymp Pro version handheld unit, diagnostic probe (length 140 cm), contralateral earphone CIR55, probe tip replacement, rechargeable battery, power supply unit for handheld unit, eartip box with eartips, test cavity, carrying case, impedance software

OPTIONAL ACCESSORIES

Contralateral headphone DD45C, license for high frequency probe tone of 1 kHz, cradle, power supply unit and additional rechargeable battery, wireless thermal printer, wall mount kit for docking station

Standard Components					
	easyTymp device	Shoulderbox with diagnostic probe and CIR55	Eartip box with eartips	Carrying case	Impedance Software
Optional Accessories					
	Contralateral headphone DD45C	Cradle	Wireless thermal printer		

SANIBEL

We highly recommend to use Sanibel disposables in order to guarantee optimal test results.



Specifications are subject to change without notice.

MAICO Diagnostics GmbH

Sickingenstr. 70-71 · 10553 Berlin · Germany
Tel.: +49 30 / 70 71 46-50 · Fax: +49 30 / 70 71 46-99
sales@maico.biz · www.maico.biz