

The **eTYMP** is an automatic middle ear analyzer for practical routine and for sophisticated clinical applications..

The **eTym** - is fully Made in Germany, from the development until manufacturing.

The device is characterized by its compact, functional and attractive design.

The combination of interactive touch screen and intuitive buttons provide a short learning curve and effective work.



eTym - Clinical Middle Ear Analyzer

- » Tympanometry with 226 (standard), 678, 800 and 1000 Hz
- » Acoustic reflex threshold testing - ipsilateral, contralateral and freefield
- » Reflex-decay-testing - ipsilateral and contralateral
- » Eustachian tube function (ETF) testing with intact and perforated tymp. membran
- » Use your own stimulation sounds
- » Various trigger functionality over decoupled input and output.
- » USB interface and interactive touch screen

» Triggered measurement of acoustic reflex caused by direct stimulation of the cochlear implant (CI)



» Measurement of acoustic reflex in freefield condition of patients with hearing aid, Baha, Middle-Ear-Implants

» Freefield acoustic reflex measurements of patients with cochlear implants (ipsi-/contralateral)

Software - evidENT3 Tym

The presentation of data, and archiving is done via the software evidENT3 Tym. The connection is via a USB interface. Due to its modular structure, it adapts to your needs - always be extended by audiometry and OAE.



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Clinical Middle-Ear Analyzer

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Clinical Middle-Ear Analyzer

eTymp

Specifications

Admittance Measurements

» Probe tone frequencies:	226 Hz, 678 Hz, 800 Hz, 1000 Hz +/- 1%
» Probe tone intensities:	85, 85, 75, 75 dB SPL +/- 3dB.
» THD+N:	Less than 5% (acoustical measured)
» Pressure range:	+500 bis -700 daPa.
» Pressure accuracy:	+/- 5% oder 10 daPa
» Compliance range:	0.1- 5.0 ml
» Compliance accuracy:	+/- 5% or 0.1 ml
» Pump velocity:	50-300 daPa/sec.
» Pump control:	Automatic
» Compliance unit:	Equivalent air volume [ml]
» Compliance graph:	Max. 3 per ear
» LED function:	Yellow - blocked, green - in ear, red/blue -ready

Acoustic Reflex

» IPSI pure tone:	500, 1000, 2000 und 4000 Hz +/- 3%
» IPSI intensity:	Max. 110 dBHL +/- 3dB
» CONTRA pure tone:	500, 1000, 2000 und 4000 Hz +/- 3%
» CONTRA intensity:	Max. 120 dBHL +/- 3dB
» CONTRA head phone:	DD45 Contra
» THD+N:	Less than 5% (acoustical measured)
» Freefield tone:	500, 1000, 2000, 4000 HZ NB Noise, WB Noise
» Freefield intensity :	Max. 90 dBHL +/- 3dB
» Min. intensity:	40 dBHL
» Measurement:	Automatic or manual
» Automatic Test:	5 dB Steps per Frequency
» Manual Test:	Max. 7 curves per Frequency and ear
» Stimulus Duration:	0.5..1.5 second (Reflexdecay 10s)

Eustachian Tube Function

» Perforated ear drum:	Active and passive tube opening (valsalva maneuver)
» Intact ear drum:	Williams test (3 Curves per Ear)

General

» Size (LxHxW):	310mmx105mmx250mm
» Weight:	ca. 3500 g
» Weight Probe:	12g
» Power consumption:	max. 50 W
» Display:	640x480 TFT Touch screen
» Interface:	Isolated USB 2.0
» Test types:	Tympanometry, Acoustic Reflex Threshold, Reflex Decay, Eustachian Tube Function (Intact and Perforated)
» Contra output:	6,35 mm
» Output FF1, FF2	6,35 mm
» Trigger input:	Optocoupler 4KV, Ifd=10 mA
» Trigger output:	Optocoupler 4KV
» Environmental:	10°C...40°C, max. 90% Humidity
» Standards:	DIN EN 60645-5:2005 DIN EN 60601-1:2007 EWG 93/42 EEC