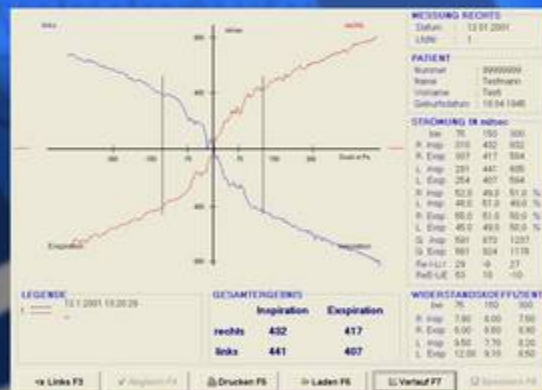
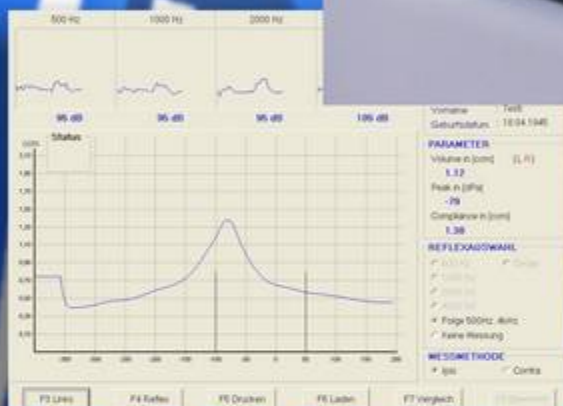


COMBI 4000 M

tympanografy & rhinomanometry



we are one of the
 leading companies
 in the field of ENT-diagnostics
 - worldwide -

COMBI 4000 M/Tymp + Rhino

The HOMOTH COMBI4000M PC module combines two ENT diagnostic and modern technology. Because of the double function of tympanography and rhinomanometry you save costs and space.

In the Tymp-Mode, the HOMOTH Combi4000M diagnostic module it is able to do a full-automatic impedance measurement within a few seconds. Every function, as well as curves and data is presented at the PC monitor. The results can be verified before documentation to avoid misprintings.

The test automatic enables to operate the Tymp4000 with only one hand, so the head of the patient can be held steady with the other hand. For measurement the probe is held against the outer ear. A two coloured lamp on top of the handle indicates the correct fitting of the probe and the measurement is starting automatically. It is possible to measure the stapedius reflex ipsi- and contralateral. During this measurement, the middle ear pressure is held in the outer ear canal.

In the Rhino-Mode, time saving adaptation via nose plugs allows a direct use at the doctors working-place, so the measurement fits within the normal examination. All calculation of flow, pressure, percentage and resistance-coefficient is done in real time, so with completion of the measurement all results are present. Persons with beards, long hair and children with fear of masks, can be measured, too. For clinical use, a face-half-mask is available, too.

During the measurement the intensity of breathing can be controlled via two measuring bars. The measurement is carried out anterior under physiological conditions of self-breathing and allows a quantitatively objective statement of the resistance behaviour of the nose.

Applications:

- € Proof of allergies after provocation
- € Function-control after nose operation
- € Diagnostics at handicapped nose breathing
- € Control after dispensation of medicines

All calculation of flow, pressure, percentage and resistance coefficient are done in real time, so that with the end of the measurement the complete results are present. All functions, as well as curves and data are presented at the PC monitor. The results can be verified before documentation to avoid miss-printings. The data and measured curves can be stored at the PC or transmitted to a practice software.

Technical data rhinomanometry

measuring-methode: anterior self-breathing
standards: EN 60601 - 1 / 1-1 / 1-2 / MPG
airflow: 0 - 900 ml /s in- und expiration
difference pressure: 0 - 50 daPa
function control: via 2 measuring bars in the display
averaging: via max 5 flow-curves
pressure calibration: automatical before start
representation: as diagram and numeric

aut. calculation of:

1. pressure in daPa
2. flow in ml /sec
3. total-flow
4. percentage
5. resistance-coefficients
6. Point 2-5 at 75, 150 and 300 daPa

accessories:

- 12 nose-plugs (olives)
- 2 flow-probes
- 2 sets of hoses
- 1 foot switch
- 1 probe holder
- 1 instruction manual

special accessories: face-halfmask

system requirements: Pentium PC min. 500 MHz,
USB 2.0 port, Window 98,
ME, 2000, XP

Technical data tympanography

system: impedance and reflex measurement
standards: EN 60601 - 1 / 1-1 / 1-2 / MPG
probetone: 226 Hz, 85 dB SPL
pressure range: + 200 to -400 daPa
pressure delta: 300 daPa / sec
measure time: 2 sec. for compliance

reflex tones: 500, 1000, 2000 and 4000 Hz
at 85, 95 und 105 dB HL

sequence of tones: automatically
reflex recognition: automatically
reflexes: ipsi and contralateral
pressure calibration: automatically at start
state indication: 1. LED 3-colors in probe
2. detailed display symbols

changeover right/left: automatic or manual
mains: 230 V
pc interface: USB
air pump: very quiet syringe pump

accessories: 1 probe with cable
1 set earplugs
1 headphone DT 48 A
1 probe holder
1 instruction manual
dimensions: w= 290 / d= 270 / h= 125 mm

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