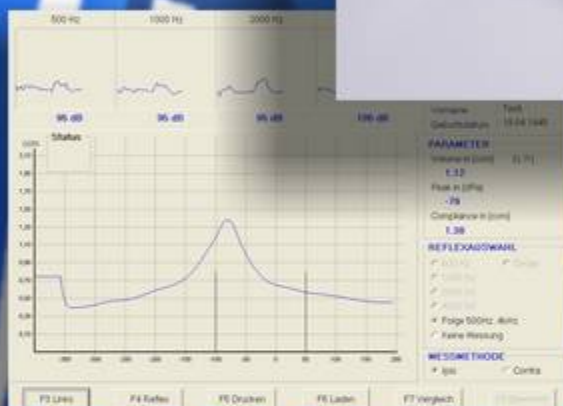


COMBI 4000

tympanografy & rhinomanometry



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

COMBI 4000 / Tymp + Rhino

The new HOMOTH COMBI 4000 combines a perfect ENT-diagnostic and a modern design. Through the double function of tympanography and rhinomanometry you save costs and space.

With the HOMOTH Tymp 4000 it is possible to do a fully automatic impedance measurement in a few seconds. The instrument is used in the doctors practice as well as in the clinic. The measurement of the compliance lasts only two seconds and is suitable thus excellent for children and restless patients. The test-results are objective and independent from the assistance of the patient. Through the extreme simple use, the investigation can be made directly at the working place and fits in well in the general investigation. For the test the probe is held against the outer ear. A three coloured lamp at the handle indicates the correct seat of the probe and the measurement is started 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.

With the HOMOTH Rhinomanometry a measuring method was evolved that allows the adaptation via nose plugs and alternatively via a face mask. The method is used in the doctors practice as well as in clinics.

The time saving adaptation via nose plugs allows a direct use at the doctors working place, so that the measurement fits in the normal examination. For clinical use also a face-half-mask is available. The measurement is carried out anterior under the physiological conditions of self-breathing and allows a quantitatively objective statement about 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 data and measured curves can be stored later at a PC. For printouts, an extreme fast digital printer, that works very noiseless and economical, is inbuilt.

Technical data rhinomanometry

measuring method: 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

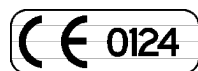
aut. calculation of:

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 300daPa

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



Technical data tympanography

system: impedance- and reflex-measurement
standards: EN 60601 - 1 / 1-1 / 1-2 / MPG
probe tone: 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

air pump: very quiet syringe pump

accessories:

- 1 probe with cable
- 1 set ear plugs
- 1 headphone DT 48 A
- 1 probe- holder
- 1 instruction manual

dimensions
w= 335 / d= 340 / h= 155 mm

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