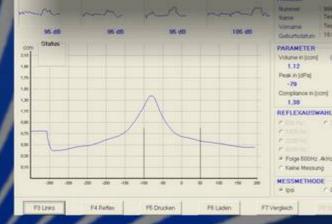


TYMP 4000 tympanografy







we are one of the leading companies in the field of ENT-diagnostics – worldwide – With the HOMOTH Tymp 4000 it is possible to do a full automatic impedance measurement within a few seconds. All functions, as well as curves and data are presented at a LCD-display. Herewith the results can be verified before documentation to avoid misprintings.

YMP 4000

The device can be used in the doctors practice as well as in the clinic. Because the measurement of the compliance only takes two seconds, it is very suitable for children and restless patients.

The test results are objective and independent from the assistance of the patient. Because of the extreme simple use, the examination can be done directly at the working place and fits in well in the general examination.

Because of the test automatic a one-hand-operation is possible, so the head of the patient can be fixed with the other hand. For the measurement the probe is held against the outer ear. A two coloured lamp at the top of the handle indicates the correct fitting 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.

For printouts, an extreme fast digital printer, woking very noiseless and economical is used. All data and diagrams can be stored on a hard disk if the device is connected to a PC-system.

system: standards: probetone: pressure range: pressure delta: measure time: reflex topes:

sequence of tones: reflex recognition: reflexes: pressure calibration: state indication:

changeover right/left:

air pump:

dimensions

accessories:

Technical data

impedance- and reflex-measurement EN 60601 - 1 / 1-1 / 1-2 / MPG 226 Hz, 85 dB SPL + 200 to -400 daPa 300 daPa / sec 2 sec. for compliance 500, 1000, 2000 and 4000 Hz at 85, 95 und 105 dB HL

automatically automatically ipsi and contralateral automatically at start 1. LED 3-colors in probe 2. detailed display symbols

automatic or manual

very quiet syringe pump

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

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

for technical modifications all rights reserved



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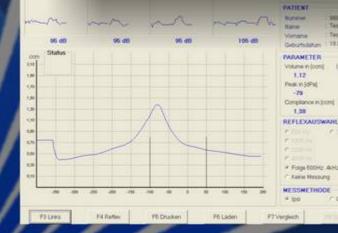
TYMP 4000 M tympanografy



Tech

10/04 754

(L.H.)





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

The HOMOTH Tymp4000M PC 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.

TYMP 4000 M

The device is used in the doctors practice as well as in the clinic. The measurement of the compliance lasts only two seconds and works exellent used on children and restless patients.

The test results are objective and independent from the assistance of the patient. Because of the extreme easy way to use, the examination can be made directly at the working place and fits in well into the general examination.

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.

The data and measured curves can be stored on harddisc or transmitted to a practice software.

Technical data

system: system requirements:

standards: probetone: pressure range: pressure delta: measure time: reflex tones:

sequence of tones: reflex recognition: reflexes: pressure calibration: state indication:

changeover right/left: air pump: mains pc interface dimensions

accessories:

Rev. 04 / Stand 01-2007

PC module via USB interface Pentium PC min. 500 MHz, USB 2.0 port, Window 98, ME, 2000, XP EN 60601 - 1 / 1-1 / 1-2 / MPG 226 Hz, 85 dB SPL + 200 to -400 daPa 300 daPa / sec 2 sec. for compliance 500, 1000, 2000 and 4000 Hz at 85, 95 und 105 dB HL

automatically automatically ipsi and contralateral automatically at start 1. LED 3-colours in probe 2. detailed display symbols

automatic or manual very quiet syringe pump 230 V USB w= 290 / d= 270 / h= 125 mm

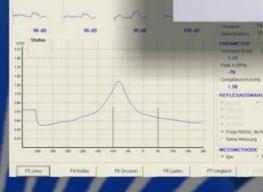
- 1 probe with cable
- 1 set ear plugs
- 1 headphone DT 48 A
- 1 probe holder
- 1 instruction manual

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COMBI 4000 tympanografy & rhinomanometry





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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 tympanografy 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 exellent 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

data tympanografy

€ Control after dispensation of medicines

Technical

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

ical data minomanometry

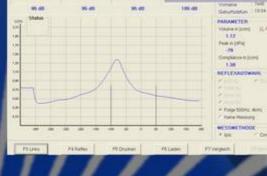
measuring method: anterior self-breathing impedance- and reflex-measurement system: standards: EN 60601 - 1 / 1-1 / 1-2 / MPG standards: EN 60601 - 1 / 1-1 / 1-2 / MPG 226 Hz, 85 dB SPL airflow: 0 - 900 ml /s in- und exspiration probe tone: difference-pressure: + 200 to -400 daPa 0 - 50 daPa pressure range: via 2 measuring bars in the display function control: pressure delta: 300 daPa / sec 2 sec. for compliance averaging: via max 5 flow-curves measure time: pressure calibration: automatical before start 500, 1000, 2000 and 4000 Hz representation: as diagram and numeric reflex tones: at 85, 95 und 105 dB HL aut. calculation of: 1. pressure in daPa 2. flow in ml /sec sequence of tones: automatically automatically 3. total-flow reflex recognition: 4. percentage reflexes: ipsi and contralateral 5. resistance coefficients pressure calibration: automatically at start 6. Point 2-5 at 75,150 and 300daPa state indication: 1. LED 3-colors in probe 2. detailed display symbols accessories: 12 nose plugs (olives) flow probes changeover right/left: automatic or manual 2 2 sets of hoses foot switch air pump: very quiet syringe pump 1 1 probe holder 1 probe with cable instruction manual accessories: 1 1 set ear plugs 1 headphone DT 48 A special accessories: face-halfmask 1 probe- holder 1 instruction manual dimensions w= 335 / d= 340 / h= 155 mm **F** 0124 for technical modifications all rights reserved

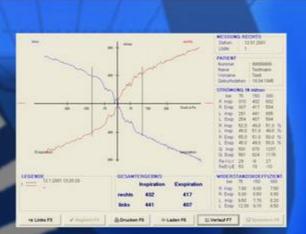
HOMOTH Medizinelektronik GmbH & Co KG, Baumacker 1a, 22523 Hamburg Tel.: ..49..40-54 72 65 0 Fax: ..49..40-54 72 65 50 Internet //www.homoth.de e-mail: info@homoth.de



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 tympanografy 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 impedance and reflex measurement system: EN 60601 - 1 / 1-1 / 1-2 / MPG standards: EN 60601 - 1 / 1-1 / 1-2 / MPG standards: probetone: 226 Hz, 85 dB SPL airflow: 0 - 900 ml /s in- und exspiration 0 - 50 daPa difference pressure: + 200 to -400 daPa pressure range: via 2 measuring bars in the display function control: pressure delta: 300 daPa / sec 2 sec. for compliance averaging: via max 5 flow-curves measure time: pressure calibration: automatical before start 500, 1000, 2000 and 4000 Hz representation: as diagram and numeric reflex tones: at 85, 95 und 105 dB HL aut. calculation of: 1. pressure in daPa 2. flow in ml /sec sequence of tones: automatically reflex recognition: automatically 3. total-flow 4. percentage reflexes: ipsi and contralateral 5. resistance-coefficients pressure calibration: automatically at start 6. Point 2-5 at 75, 150 and 300 daPa state indication: 1. LED 3-colors in probe 2. detailed display symbols accessories: 12 nose-plugs (olives) 2 flow-probes changeover right/left: automatic or manual 2 sets of hoses mains 230 V 1 foot switch pc interface USB 1 probe holder air pump: very quiet syringe pump 1 instruction manual accessories: 1 probe with cable face-halfmask 1 set earplugs special accessories: 1 headphone DT 48 A 1 probe holder -----Pentium PC min. 500 MHz, system requirements: 1 instruction manual USB 2.0 port, Window 98, dimensions w= 290 / d= 270 / h= 125 mm ME, 2000, XP for technical modifications all rights reserved 0124

Rev. 04 / Stand 01-2007

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Technical data tympanografy

MEDIZINELEKTRONIK GMBH & CO KG

Center 4000 M

Ultrasound - Tympanografy - Rhinomanometry



- blue line edition -



- classic edition -

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