

CLINICAL MIDDLE EAR ANALYZER PRODUCT SPECIFICATIONS

GENERAL SPECIFICATIONS

DIMENSIONS AND WEIGHT

• L x W x H: 370x290x180 mm • Net weight: 3.5 kg

Body material: Bayblend[®] self-extinguishing

TEST TYPES

Tympanometry, Acoustic Reflex, Reflex Decay, nr. 3 Quick Test, Acoustic Reflex Latency Test (ARLT), ETF (Intact, Perforated and Patulous), Special tests (Growht-DLI and Non acoustic)

DISPLAY

• 7" TFT Color display

• Multilingual

PRINTER

 Built-in fast thermal printer with paper width: 112 mm supplied as standard part

REPORTS

Printed on thermal printer
.pdf report create directly from the device and stored on USB Pen drive with possibility to add patient data and tests comments via the USB Keyboard (optional)

 Data transfer to PC using Resonance Management Data Suite

"CHILDREN" FEATURE

• To help keep the child distracted while running screening "Quick Check" a series of animated images appears on the color display

DATA TRANSFER TO PC

Via cable trough USB port

COMMUNICATION PORT

Nr.1 USB host type A
 Nr.1 USB slave type B

WINDOWS® COMPATIBLE SOFTWARE

Resonance MDS Management Data Suite

POWER

POWER SUPPLY

• 110-240V AC 50/60Hz 40VA • Fuses: 2 x T 1 A L 250V

CONSUMPTION

Max current: 0,15A
 Power consumption: 40VA

ENVIRONMENTAL

OPERATING ENVIRONMENT

- Storage: -20° C up to +50° C
- Operating: +15° C up to +35° C
 Humidity: up to 90%, (non condensing)
- Ambient pressure: from 700hPa up to 1060hPa

TYMPANOMETRY OPERATING SPECIFICATIONS

PROBE TONE

• 226 Hz for Admittance (Y) curve tympanometry

INTENSITY

- 226 Hz: 85dB SPL ± 2dB
- \bullet Frequency Accuracy: \pm 0,5%
- Harmonic distortion: Less then 1%

ADMITTANCE MEASUREMENTS

Compliance range at 226Hz: 0,05 up to 7ml
Sensitivity scale: Autoscale to appropriate range; available scale at 226Hz: 1.5, 2, 5ml or 7ml

AIR PRESSURE

- Control: Automatic and Manual
- Range: from +400 up to -600 daPa adjustable in 50 daPa steps
- Pressure accuracy: $\pm 10~daPa~or~\pm 10\%$ Sweep rate: 50, 100, 200,300 daPa/sec
- and automatic
- Indicator: Measured value is displayed
- Safety limitations: -800 up to +600 daPa

EUSTACHIAN TUBE FUNCTION

- ETF test for use with both intact and perforated eardrums
- Available also test for patulous tympanic membrane

ACOUSTIC REFLEX TESTS

- Reflex test method: Threshold , Automatic, Manual
- Stimulus duration: 0,5 , 1 or 2 sec.
- User selectable protocols for all test methods
- Ipsi or Contralateral stimulation for all reflex test
 Automated peak search functions available for all test methods
- Manual Reflex: Pump manual control of all stimuli
- Reflex Decay: Threshold , Automatic, Manual
- Stimulus duration: 10 or 20 sec.
- ARLT: Threshold , Automatic, Manual
- Stimulus duration: 1 sec. fixed
- Non Acoustic: 10/20 sec.

FREQUENCIES AND INTENSITY RANGES • Ipsilateral:

- Pure tone level range (dBHL) from 50 to 110
- Noise level range (dBSPL) from 50 to 100
- Frequency: 500, 1000, 2000, 3000, 4000 Hz, BBN,HP or
- LP noise • Accuracy: ±1%
- Harmonic distortion (THD): less than 3%

Contralateral:

- Pure tone level range (dBHL) from 50 to 120
- Noise level range (dBSPL) from 50 to 115
- Frequency: 250, 500, 1000, 2000, 3000, 4000, 6000,
- 8000 Hz, BBN, HP or LP noise
- Accuracy: ±1%
- Calibration accuracy ±3 dB

Please contact Resonance should you have any questions: support@resonance-audiology.com

RoHS

FEBRUARY 2016

Datasheet: REV

- Level steps: 1 , 2, 5 or 10 dB
- On/Off ratio: 70 dB minimum

QUALITY SYSTEM

Manufactured, designed, developed and marketed under an ISO 13485, ISO 9001 certified quality system. Medical CE mark and FDA approval.

COMPLIANCE/REGULATORY STANDARDS

Designed, tested and manufactured to meet the European and International Standards:

- MDD 93/42/EEC and update 2007/47/CEE: Class IIa (as referred to in Annex IX, rule 10 of said MDD 93/42 EEC)
- Safety: IEC 60601-1, 3rd and 2nd edition, Class 1 Type B
- EMC: IEC 60601-1-2
- Impedance: IEC 60645-5/ANSI S.3.39 Type 1

STANDARD ACCESSORIES

- Headband Probe 226 Hz
- Probe cleaning tool kit
- DD45 for Contra
- Insert for Contra
- Kit of assorted ear tips; size from 6 mm up to 15 mm

Resonance[®] MDS software with NOAH[®] module

• Kit of assorted silicone ear tips "MS" shape

Resonance makes no warranty, nor assumes any legal liability or

responsibility for the accuracy, typing errors or mistakes, correctness or completeness of any information in this datasheet.

The information in this datasheet was correct to the best of our knowledge at the time of printing.

Calibration cavity with probe holder

included (demo version)

OPTIONALS

• External USB Keyboard

Carrying bag

• TDH39 for Contra

MDS software licence

Foot switch

- Built-in fast thermal printer
- Thermal paper roll
- Device dust cover
- Multilingual Quick user's handbook

• Power supply cable (110 - 220V)

size from 8 mm up to 16 mm

• Pen Drive

Spare fuse