



Datasheet

Measure Standalone Tympanometer

Auditdata

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|------------------------|--|---|
| Standards | Tympanometry | IEC 60645-5:2004 |
| | Electrical Safety | IEC 60601-1: IEC 60601-1:2005 + Cor.: 2006 + Cor.: 2007 + A1:2012 |
| | EMC | IEC 60601-1-2: 2014 |
| | PEMS | IEC 60601-1-4: 2000 |
| | Usability | IEC 60601-1-6:2010+A1:2013 |
| | Audiometry | IEC 60645-1:2017 |
| | The device fulfils all requirements of the Medical Device Directive 93/42/EEC, class II a. PATH MEDICAL is the legal manufacturer of the device for regulatory compliance. | |
| Tympanometry | Probe Tone | 226Hz |
| | Pressure Range | -600 to +300 daPa |
| | Test Types | Tymp & Reflex automatic sequence |
| Acoustic Reflex | Stimuli (with EP-TY probe) | 500, 1000, 2000, 3000, 4000 Hz, BB, HP, LP stimulus up to 105 dB HL |
| | Stimulus Presentation Modes | Ipsilateral |
| | Screening Levels | 70 to 100 dB HL; step size: 5 dB |
| | Test Methods | Ipsilateral reflex and automatic reflex threshold Optional: contralateral reflex |
| | Transducers | Optional: Sennheiser HDA-300, Interacoustics DD-45, Holmco PD-81, PATH EP-VIP |
| Instrument | Dimensions | 150 x 210 x 45 mm |
| | Weight | 475 g |
| | Display | 240 x 320 pixel, 5.0 " |
| | Connections | USB |
| | Power Supply | Friwo FW 7662M/12 (GPP6) |
| | Output Rating for Power Supply Unit | 100-240 V, AC, 50-60 Hz, 0.15 A |
| | Output Voltage and Nominal Impedance | 5 Vpp, 32 Ω |
| | Rechargeable Battery | 3.7 V Li-Ion |
| | Power Consumption | max. 2 W |
| | Maximum Operating Time with Fully Charged Batteries | ca. 6 to 8 hours (dependent on usage) |
| | Maximum Charging Time | ca. 8 hours |
| | Memory Capacity | up to 1000 patients, ca. 1000 tests (dependent on test type) |

Optional modules to Measure Standalone Tympanometer

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| Tympanometry | Class I tympanometry module | |
| | Multifrequency tympanometry | 226Hz, 668Hz, 800Hz, 1000Hz simultaneously stimulation |
| | Contralateral reflex testing | Contralateral headset required |
| | ETF | Eustachian Tube Functionality test |
| | 1000 Hz module | |
| | High-frequency tympanometry | |
| | ETF module | |
| | Eustachian Tube Functionality test | |
| Otoacoustic Emissions - TEOAE | TEOAE Quick module | |
| | Frequencies | 0.7 - 4kHz – fixed frequency range |
| | Stimulus levels | 85 dB peSPL |
| | SNR Stop criterion | Fixed |
| | TEOAE Diagnostic module | |
| | Test Frequencies | 1,1.5,2, 3, 4 kHz |
| | Stimulus levels | 60 to 85 dB peSPL; 5 dB steps |
| | Stop Criterion | Selectable user defined stop criteria 3, 4 or 5 out of 5 frequency band |
| | Selectable SNR | 6 or 9 dB |
| | Stimulus Protocol | Nonlinear |
| | Test Time | 15 s, 30 s, 60 s, Automatic |
| | Usable Transducers | EP-DP |
| | Otoacoustic Emissions - DPOAE | DPOAE Quick module |
| Frequencies f_2 | | 1, 1.5, 2, 3, 4, 5, 6, 8 kHz |
| Stimulus levels L_2 | | 30 to 65 dB SPL; step size: 5 dB |
| L_2/L_1 Relation | | Automatic (scissor paradigm: $L_1 = 0.4 L_2 + 39$ dB SPL, Kummer et al. 1998) |
| SNR Stop Criterion | | 6, 9, 12 dB |
| Overall Stop Criterion | | x out of y (with y = number of selected frequencies, $x = y/1/y-2$ & $x > y/2$) with "as fast as possible" option, i.e. stop as soon as overall criterion is fulfilled or cannot be fulfilled anymore |
| Maximum Number of Recalibrations Until Stop | | 0, 1, 3, 10 |
| Manual Retest | | |
| DPOAE Diagnostic module | | |
| Frequencies f_2 standard | | 1, 1.5, 2, 3, 4, 5, 6, 8 kHz |
| Stimulus levels L_2 | | 30 to 65 dB SPL; step size: 5 dB (single and multiple selections possible) |
| Stimulus Levels L_2 | | 30 to 65 dB SPL; step size: 5 dB (single and multiple selections possible) |
| L_2/L_1 Relation | | Automatic (scissor paradigm), $L_1=L_2$, $L_1=L_2+5$ dB, $L_1=L_2+10$ dB (max. L_1 limited to 65 dB SPL) |
| SNR Stop Criterion | | 6, 9, 12 dB |
| Minimum DPOAE Level Criterion | | -20, -15, -10, -8, -5, 0 dB |
| Measurement Time | | Adaptive timeout, manual minimum/maximum timeout (2 to 120 s) |

Standard and optional parts

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| Standard | 100188-US | EP-TY Probe Long |
| | 100587 | Accessory Box Combi |
| | 100734 | Accessory Box Plastic Tips Mushroom |
| | 100414 | Direct Print Feature |
| | 100560 | Tymp Screening License |
| | 100524 | Power Supply (without primary adapter) |
| | 100525-US | US Adapter |
| | 100525-EU | European Adapter |
| | 100525-UK | UK adapter |
| | 100525-USA-EU-UK-AUS | Set of all adapters |
| | 100549 | Test Cavity for Tymp |
| | 100904-EN | English Manual (sentiero) |
| Accessories | 100689 | 1000Hz Tymp License |
| | 100587 | Accessory Box Combi |
| | 100734 | Accessory Box Plastic Tips Mushroom |
| | 100708-D | Carry Case |
| | 100116 | NOAH Connector License |
| | 100525-AUS | AUS/NZ Power Supply Adaptor |