

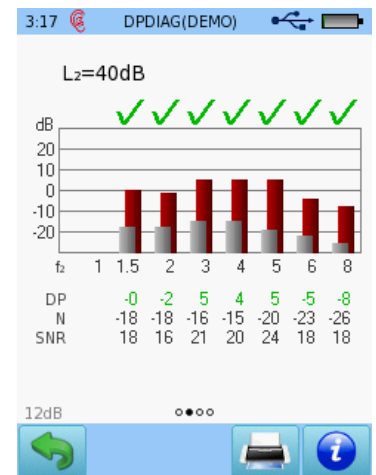
Datasheet

TY-101 Tympanometer



Standards	Tympanometry	IEC 60645-5	
	Electrical Safety	IEC 60601-1	
	EMC	IEC 60601-1-2	
	PEMS	IEC 60601-1-4	
	Usability	IEC 60601-1-6	
	Audiometry	IEC 60645-1	
	The device fulfils all requirements of the Medical Device Directive 93/42/EEC, class II a.		
Tympanometry	Probe tone	226 Hz	
	High frequency	1000 Hz	
	Multi frequency tympanometry	2 tones simultaneously	
	Pressure range	-300 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, optional: contralateral	
	Screening levels	70 to 95 dB HL; step size 5dB	
	Test methods	Ipsilateral reflex and automatic reflex threshold Optional: contralateral reflex	
	Transducers	Optional: Sennheiser HDA-280, Sennheiser HDA-300, Interacoustics DD-45, Holmco PD-81, GN ME-70, GN otoInsert, Etymotic Research ER-3A, Etymotic Research ER-3C, RadioEar IP-30, PATH EP-VIP	
	Instrument	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	
Dimensions		150 x 210 x 45 mm	
Weight		475 g	
Connections		USB	
Display		240 x 320 pixel, 5.0 "	

OAE Modules for TY-101



Optional: DPOAE Quick	Frequencies f ₂	1, 1.5, 2, 3, 4, 5, 6, 8 kHz
	Stimulus level 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	
Optional: DPOAE Diagnostic	Frequencies f ₂ (standard)	1, 1.5, 2, 3, 4, 5, 6, 8 kHz
	Frequencies f ₂ (with DPHIRES license):	Linear: 0.8 to 10 kHz (step size: 0.5 kHz from 1 to 10 kHz), steps: 10 to 1000 Hz (step size: 10 Hz, minimum step size depends on start and stop frequency) Logarithmic: 0.8 to 10 kHz (step size: 0.5 kHz from 1 to 10 kHz), steps: 1 to 30 points per octave (step size: 1 point per octave)
	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 70 dB SPL)
	SNR stop criterion	6, 9, 12 dB
	Minimum DPOAE level criterion	-20 to 0 dB; step size: 5 dB
	Measurement time	Adaptive timeout, manual minimum/maximum timeout (2 to 120 s)