

## touchTymp MI 36 Tympanometry & Audiometry in one device

Simply intuitive middle ear diagnostics with AC & BC audiometry

### Improve your workflow every day

Our touchTymp MI 36 combines diagnostic middle ear analyzer and audiometry tests in one exceptional device. The full 10.4" touchscreen with its user-friendly interface guarantees a unique intuitive operation and allows to quickly change parameters. You can easily switch between the tests without reorganizing from one to another device and benefit from its small footprint when facing limited desk space. touchTymp MI 36 really improves your workflow every day.

### Comprehensive test protocols

Our touchTymp MI 36 provides comprehensive standard protocols for immediate operation of screening and diagnostic test processes: tympanometry with 226 Hz, tympanometry with automatic or fixed acoustic reflexes, reflex decay, Eustachian tube function testing (ETF) plus air conduction and bone conduction audiometry. The optional high-frequency probe tone of 1 kHz is ideal for providing reliable results when testing newborns.

### Stay focused on your patients

The unique touchTymp light bar on our shoulder box probe provides a real-time progression of the immittance test. The shoulder box can easily be clipped to your patient's top for controlled handling of the diagnostic probe. The light indicator shows you which ear is tested and the test result.

### Printing made easy

Print test results instantly by using the touchTymp built-in printer. Place the shoulder box into its holder to automatically start printing. You can transfer the results to a PC to allow long term storage, full page printout and PDF creation for EMR integration.

### Compatible to Sessions: Get ready for fast data transfer!

Use the touchTymp MI 36 with our intuitive data transfer solution Sessions, for easy management and visualization of your immittance measurements.

### Features at a glance

- Combo device with small footprint
- Customizable to suit individual needs
- High resolution and quick screen transitions
- Full touch-based interface for intuitive handling
- Probe tone 226 Hz, 678 Hz, 800 Hz
- Optional high-frequency probe tone 1 kHz
- Acoustic reflex stimuli 500 Hz, 1 kHz, 2 kHz, 4 kHz, BB, HP, LP (ipsilateral and contralateral)
- Reflex Decay test (ipsilateral and contralateral)
- ETF test for intact and perforated eardrums
- Air conduction audiometry
- Bone conduction audiometry
- Built-in printer or data transfer to PC
- Optional MAICO Sessions PC Software connectable with OtoAccess® or Noah patient database for easy data management



## Technical Data touchTymp MI 36

### TYMPANOMETRY

Probe Frequency	226 Hz $\pm$ 1 %, 85 dB SPL $\pm$ 1.5 dB 678 Hz $\pm$ 1 %, 72 dB SPL $\pm$ 1.5 dB 800 Hz $\pm$ 1 %, 70.5 dB SPL $\pm$ 1.5 dB
Optional High Frequency	1 kHz $\pm$ 1 %, 69 dB SPL $\pm$ 1.5 dB
Pressure Range	- 600 to + 400 daPa
Accuracy of Pressure	$\pm$ 5 % or $\pm$ 10 daPa
Volume Range	0.0 to 6.0 ml (compensated)
Compliance Range	0.1 to 8.0 ml at 226 Hz 0.1 to 15.0 mmho at 678, 800 and 1000 Hz
Accuracy of Volume	$\pm$ 5 % or 0.1 ml
Test Time Measurement	3 - 5 seconds

### ACOUSTIC REFLEXES

Test Frequencies	0.5, 1, 2, 4 kHz $\pm$ 1 %
Test Noise	BB, LP, HP
Test Methods	Ipsilateral, contralateral
Level Ipsilateral	70 to 105 dBHL
Level Contralateral	70 to 120 dBHL
Level Setting	Automatic, fixed
Ipsilateral Reflex Test	With AGC

### REFLEX DECAY

Standard	Probe frequency 226 Hz
Test Frequencies	0.5, 1, 2, 4 kHz $\pm$ 1 %
Test Noise	BB, LP, HP
Level Ipsilateral	70 to 105 dBHL
Level Contralateral	70 to 120 dBHL

### EUSTACHIAN TUBE FUNCTION

Test Methods	Intact and perforated
Pressure Range	- 600 to + 400 daPa

Standard Components			
	touchTymp with Shoulder-Box and printer	DD45 and B71 (Audiometry)	DD45 C (Typanometry)
Optional Accessories / Software			
	MAICO Sessions PC Software	OtoAccess Database	Noah Database

### AUDIOMETRY

Test Signals	Sinus and warble tone (pulsed and continuous)
Test Frequencies	125, 250, 500, 750, 1000, 1500, 2000, 3000, 4000, 6000, 8000 Hz (125 Hz excluded from bone conduction test frequencies)
Level Steps	5 or 1 dB
Hearing Level Range AC	-10 to 120 dBHL
Hearing Level Range BC	-10 to 80 dBHL
Masking Noise	Narrow band and white noise

### DEVICE GENERAL

Display	10.4" Graphic LED-Display with resistive touchscreen
PC Interface	USB
Probe	Lightweight diagnostic Shoulder-Box with built-in control light and switch
Printer	Fast 4 inch thermal printer
Power Supply	Mains 100 to 240 V $\pm$ 10 %, 50 - 60 Hz $\pm$ 10 %
Dimensions / Weight	W 30 x D 34.5 x H 14.8 cm / 3.2 kg
Languages	English, German, Spanish, French, Polish, Turkish, Russian, Chinese

### STANDARD

- ANSI/ AAMI ES/ IEC/ EN 60601-1, class I, Type B; IEC 60645-5, Type 2/ ANSI S3.39, Type 2; IEC 60645-1, Type 3/ ANSI S3.6, Type 3
- Class IIa according to EU medical device directive 93/42/EEC



### STANDARD COMPONENTS

Shoulder-Box probe, Shoulder-Box adapter kit, Shoulder-Box attachment kit, contra phone (DD45 C), DD45 audiometry headset, B71 Bone Conductor, patient response switch, built-in calibration cavity, built-in printer and roll of thermal paper, mains cable, Sanibel ear tip kit, probe floss kit, cleaning cloth, touchpen, operational manual, quick guides

### OPTIONAL ACCESSORIES / SOFTWARE

Talk back microphone, mic-monitor headset, MAICO Sessions PC Software, OtoAccess® Database, Noah Database

### SANIBEL

We highly recommend to use Sanibel disposables in order to guarantee optimal test results.



Specifications are subject to change without notice.

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