

## touchTymp MI 34

### Simply intuitive middle ear diagnostics

Additional evaluation possibilities for advanced testing

#### Improve your workflow every day

The touchTymp combines a full 10.4" touchscreen and a user-friendly designed interface for an intuitive operation. The large colour display allows the user to easily change parameters with a maximum of 3 clicks.

#### Stay focused on your patients

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

#### Comprehensive test protocols

Our touchTymp MI 34 provides comprehensive standard protocols for immediate operation of screening and diagnostic test processes: tympanometry with 226 Hz, tympanometry with automatic acoustic reflexes or at a fixed level, reflex decay measurements and Eustachian tube function testing (ETF). The optional high-frequency probe tone of 1 kHz is ideal for providing reliable results when testing newborns.

#### Printing made easy

Print test results and reports instantly by using the touchTymp built-in printer. Place the probe into its holder to automatically start the printing process – touchTymp really is that easy and intuitive.

#### Features at a glance

- Provides test results within seconds
- High resolution and quick screen transitions
- Full touch-based interface for intuitive handling
- Allows testing from infants to adults
- Customizable to suit individual needs
- Innovative probe lights for patient-focused operation
- 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
- Built-in printer



## Technical Data touchTymp MI 34

### TYMPANOMETRY

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

### ACOUSTIC REFLEXES

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

### REFLEX DECAY

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

### EUSTACHIAN TUBE FUNCTION

<b>Test Methods</b>	Intact and perforated
<b>Pressure Range</b>	- 600 to + 400 daPa

### DEVICE GENERAL

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

### STANDARD

- ANSI/AAMI ES/IEC/EN 60601-1, class I, Type B
- IEC 60645-5, Type 2; ANSI S3.39, Type 2
- 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 (IP30, CIR 55 or DD 45 C), built-in printer and roll of thermal paper, mains cable, Sanibel ear tip kit, probe floss kit, MAICO USB flash drive kit, Impedance Module software, USB-cable, cleaning cloth, touchpen

### SANIBEL

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

**Sanibel™**

Specifications are subject to change without notice.

#### Standard Components



touchTymp  
with printer

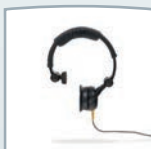


Shoulder box

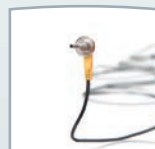


Ear tip kit

#### Contra Phone Options



DD45 C



CIR55



IP30

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