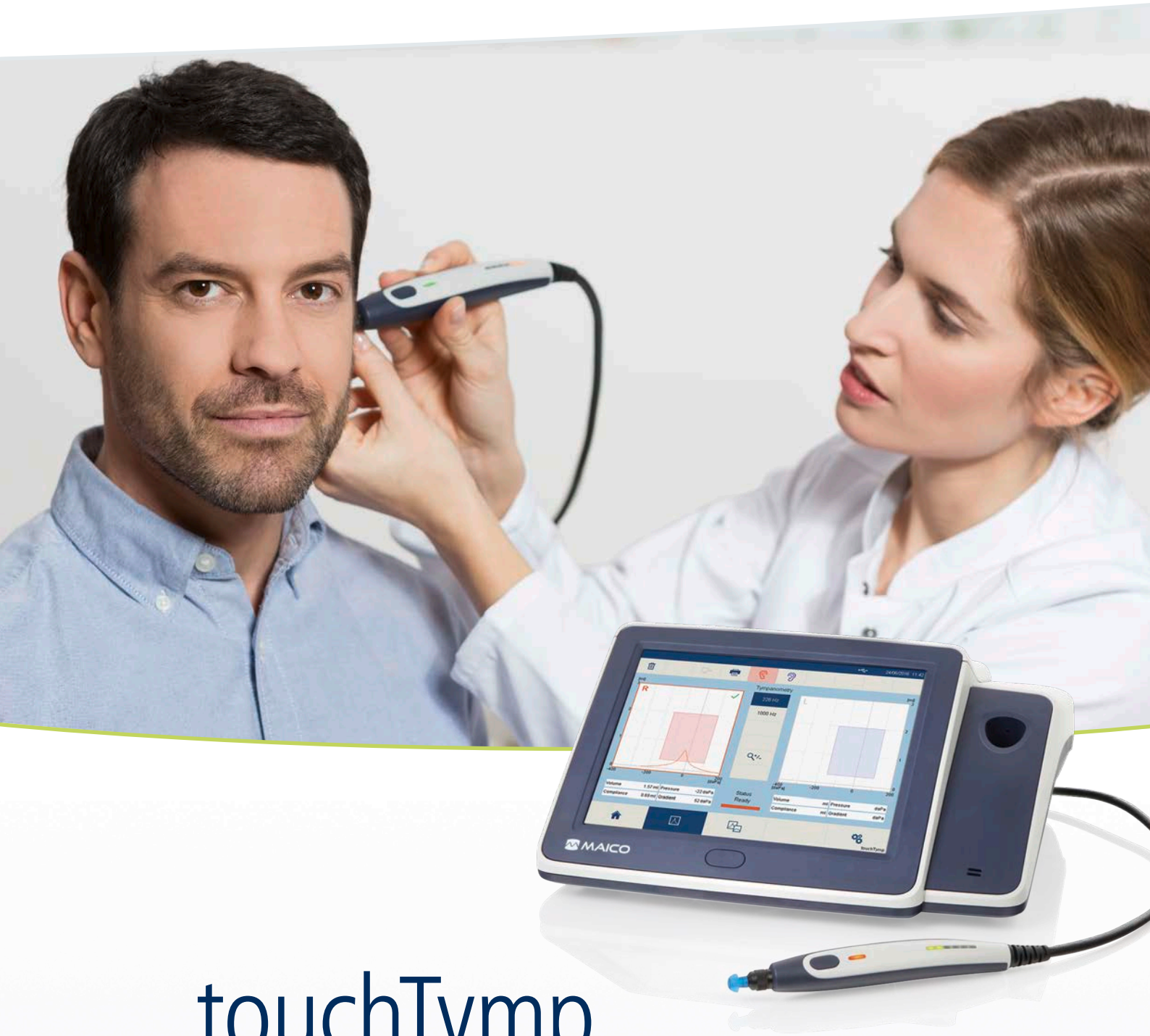
MAICO



touchTymp

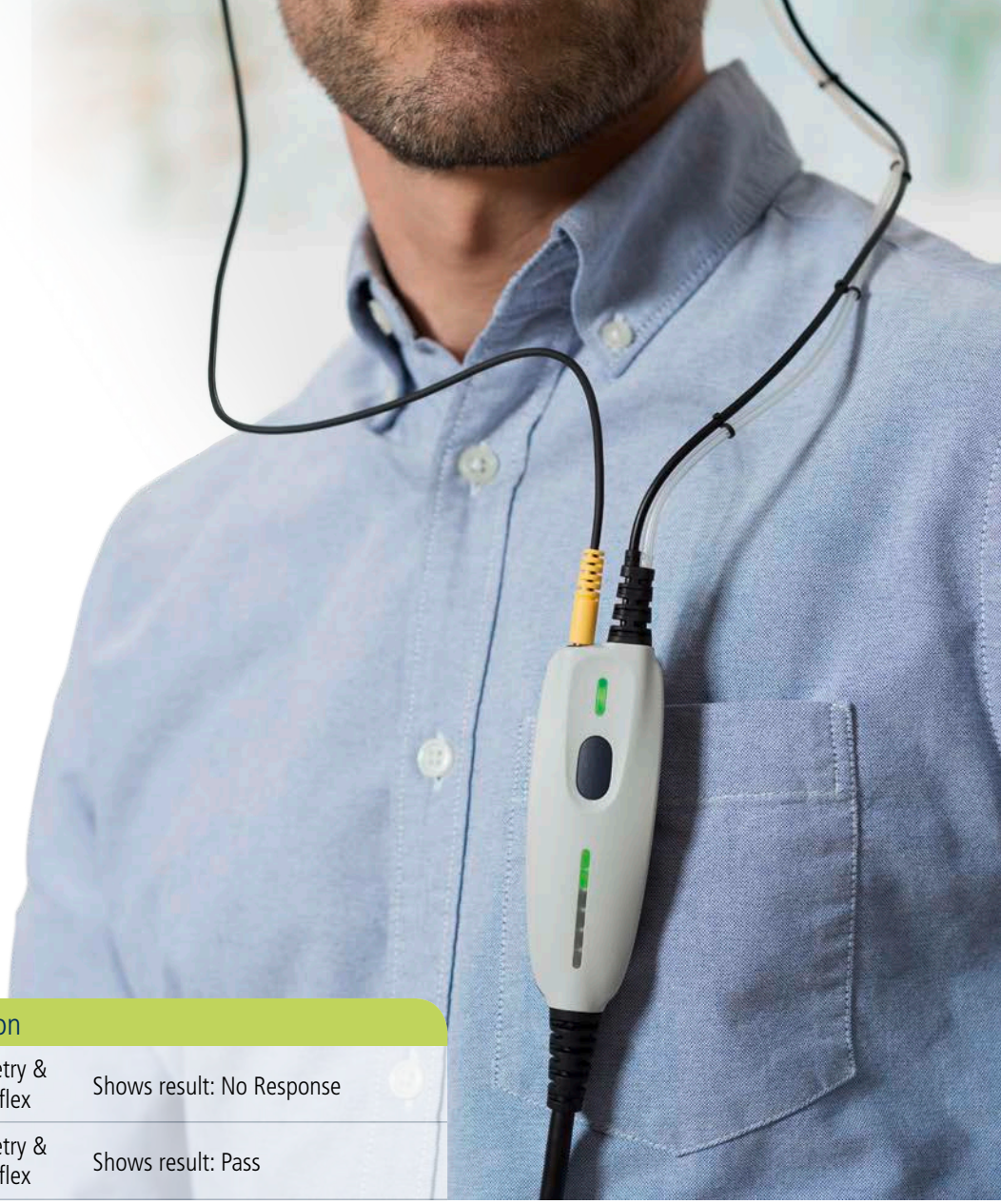
Our ALL-TOUCH Impedance Line

Simply Intuitive Middle Ear Testing

Our touchTymp impedance line is designed to turn tympanometry into an intuitive, efficient and enjoyable procedure. Improve your daily workflow with our full 10.4" touchscreen and a user-friendly interface that allows an easy change of parameters.

„I can operate all features within 3 clicks. touchTymp really is amazingly intuitive"

Dr. Michel Bloch, Cannes, France



Probe Lightbar	Explanation	
	Tympanometry & Acoustic Reflex	Shows result: No Response
	Tympanometry & Acoustic Reflex	Shows result: Pass
	Acoustic Reflex	Stimulus is being given (additionally the last result is shown)
	Tympanometry	Lights up (rolling up) dependent on the values (normative box)

Focus on Your Patient

Experience full control of the probe while concentrating on your patient: touchTymp's easy-to-handle probes feature unique light bars to provide a real-time progression of the test. To exactly match your needs, the different touchTymp versions come with distinctive probes. touchTymp MI 24 and touchTymp MI 26 offer an ergonomic pen probe for screening tests. touchTymp MI 34 and touchTymp MI 36 feature a lightweight shoulder box for both screening and diagnostic purposes. It can easily be clipped to your patient's top for controlled handling.

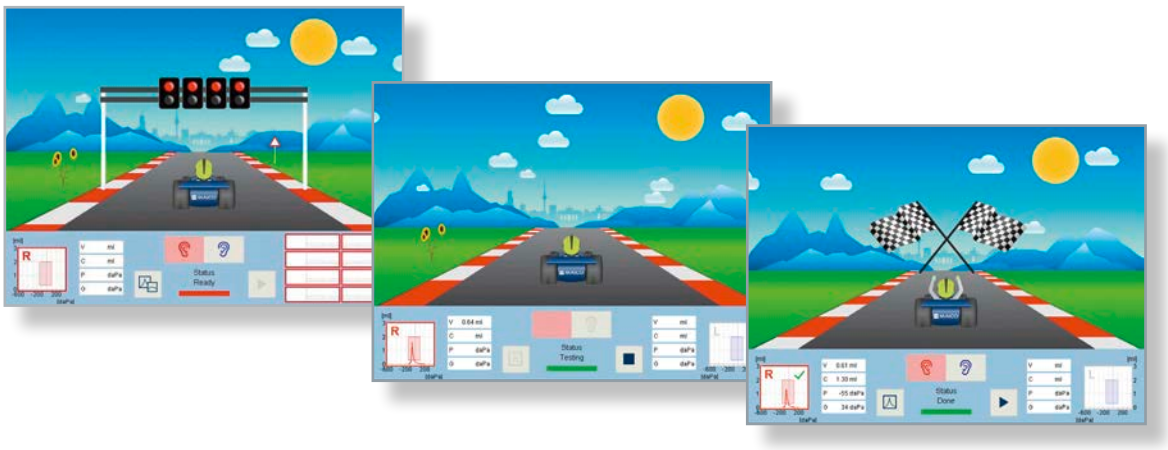
With Audiometry for a Small Footprint

Our touchTymp MI 26 and touchTymp MI 36 both combine intuitive tympanometry and audiometry in one exceptional device. Their small footprint makes them perfect for limited desk space, and the ability to switch easily and smoothly between tests makes your workflows much more efficient and comfortable.

Choose between the touchTymp MI 26 for middle ear and audiometric screenings or the touchTymp MI 36 for added diagnostic capabilities. In addition to air conduction audiometry, the touchTymp MI 36 also offers bone conduction, which is available as an optional function for the touchTymp MI 26.

Tympanometry for Children has Never been so Exciting

We make immittance testing easy and fast by focusing the child's attention on an exciting animated car race for the duration of the tympanometry or reflex screening procedure. The colorful animation engages the child, reducing the likelihood of breaking the seal between probe tip and ear and having to retest. This saves you time and effort, while also making the screening procedure more enjoyable for your little patient!



The car race starts as soon as the test begins. Once the measurement is completed, the car reaches the finish line and the patient has won the race.

Comprehensive Test Protocols

Each touchTymp provides comprehensive standard protocols for immediate operation of screening and diagnostic tests:

Tests	touchTymp				
	MI 24	MI 26	MI 34	MI 36	RaceCar
Tympanometry					
226 Hz	√	√	√	√	
678 Hz, 800 Hz			√	√	
1000 Hz	optional upgrade	optional upgrade	optional upgrade	optional upgrade	
Acoustic Reflexes					
Fixed (Screening)	√	√	√	√	
Automatic (Threshold)	√	√	√	√	
Ipsilateral	√	√	√	√	
Contralateral	optional upgrade	optional upgrade	√	√	
Pure tone	√	√	√	√	
Noise			√	√	
Reflex Decay					
Ipsilateral / Contralateral			√	√	
ETF					
ETF-Intact / -Perforated			√	√	
Audiometry					
Pure tone + warble tone		√		√	
Air conduction		√		√	
Bone conduction		optional upgrade		√	
Masking		√		√	

Available with each test protocol of:

touchTymp MI 24
touchTymp MI 26
touchTymp MI 34
touchTymp MI 36

PC Software

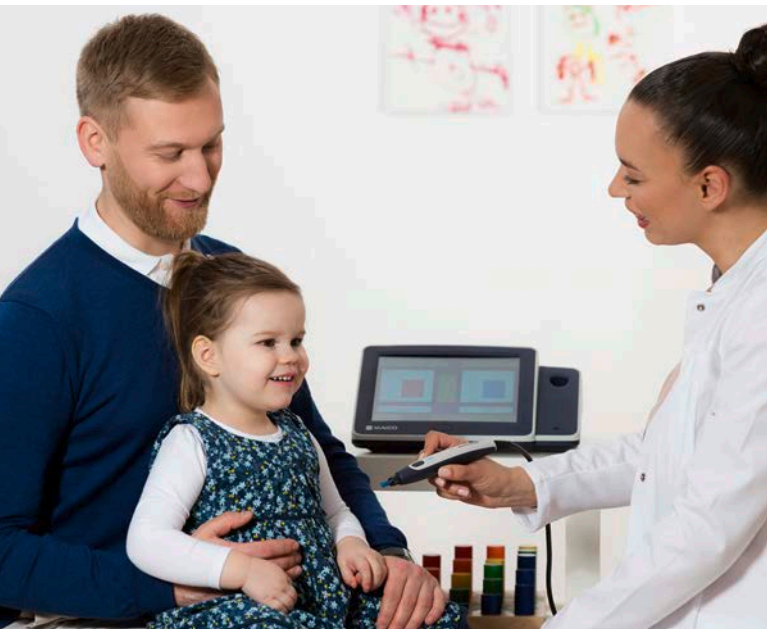
Customize touchTymp's software to show only the data you need in your preferred language (English, German, French, Spanish or Polish). The intuitive icons lead you through your data with very few clicks and make it easy to compare a patient's measurements.

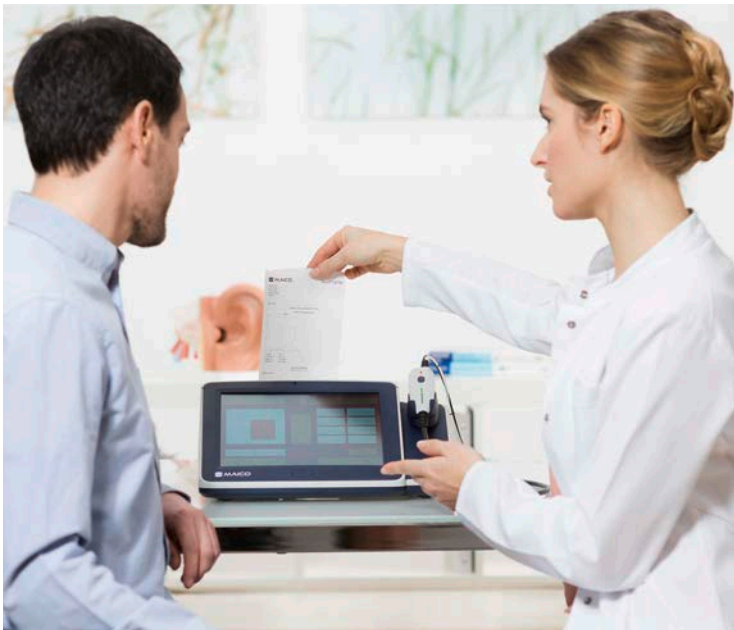
Middle Ear Testing for All Ages

You and your patients are diverse – and so is our touchTymp. touchTymp is designed for the needs of all ages. Perform screening and diagnostic tests from newborn patients to older adults.

Printing Made Easy

Save time by using the touchTymp's built-in printer: Just place the probe into its holder to instantly and automatically print test results and reports.





Technical Data touchTymp Line*

TYMPANOMETRY

Probe Frequency	226 Hz ± 1 %, 85 dBSPL ± 1.5 dB 678 Hz ± 1%, 72 dBSPL ± 1.5 dB 800 Hz ± 1%, 70.5 dBSPL ± 1.5 dB
Optional High Frequency	1 kHz ± 1%, 69 dBSPL ± 1.5 dB
Pressure Range	- 600 to + 400 daPa
Accuracy of Pressure	± 5 % or ± 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	± 5 % or 0.1 ml
Test Time Measurement	3 - 5 seconds

ACOUSTIC REFLEXES

Test Frequencies	0.5, 1, 2, 4 kHz ± 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 ± 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

AUDIOMETRY

Test Signals	Pure tone and warble tone (pulsed and continuous)
Test Frequencies	125, 250, 500, 750, 1000, 1500, 2000, 3000, 4000, 6000, 8000 Hz (125 Hz excl. 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~ ± 10 %, 50 - 60 Hz ± 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

CE 0123

* Technical specifications vary with version selected

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09/2018