

Ratings for Tympanometers 2012

APPEARANCE & SIZE (1-5)	GSI 39 (Gr-St)	EasyTymp (Maico)	MT10 (Interacoustics)	MicroTymp3 (WA)
Type/Style	Table top cable & probe	Portable handheld with docking station	Portable handheld with docking station	Portable handheld with docking station
Dimensions (L x W x H)	15 x 12 x 5.5 in total station	Base is 11.5 x 6 x 4.5 Handle is 12 x 3 x 3.5	Base is 9 x 5 x 2 Handle is 10 x 6 x 2	Base is 9.5 x 7.5 x 5 Handle is 10 x 4 x 2
Weight (Mass):	2300 g	417g	500g	Handheld 280g Base 1810g
Is it a reasonable size to manipulate?	Handle, yes (Best probe)	A bit large	A bit large	Yes
Power	Runs on 120 V	Handheld charges in 120V docking station	Handheld charges in 120V docking station	Handheld charges in 120V station
First impression	5	5	5	5
Professional appearance (Color, etc.)	5	5	5	5
Patient perspective	5	3	3	3
Overall look & feel	5	4	4	4
Accessories	5	5	5	5
SAFETY				
(1-5)	GSI 39 (Gr-St)	EasyTymp (Maico)	MT10 (Interacoustics)	MicroTymp3 (WA)
Angles, sharp edges	5	5	5	5
Power exposure to patient	5	5	5	5
Fire hazard	5	5	5	5
DURABILITY				
(1-5)	GSI 39 (Gr-St)	EasyTymp (Maico)	MT10 (Interacoustics)	MicroTymp3 (WA)
Materials	5	5	5	5
Working Parts	5	5	5	5
Ear Probe	5	5	4	3
Ear Tips	4	4	4	3
Handle stability	5	5	5	4
Impact Resistance	4	4	4	4
Hinged parts?	4	4	4	4
ERGONOMICS of Physical Design				
(1-5)	GSI 39 (Gr-St)	EasyTymp (Maico)	MT10 (Interacoustics)	MicroTymp3 (WA)
Size	3 Largest	4	4	5 Smallest
Shape	4	4	3	4
Agility	4	4	4	5
Patient fit	5	4	4	4

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Button accessibility	5	5	5	5
Tip fit on probe	5	5	4	4
EASE of USE:				
Overall Operations (1-5)	GSI 39 (Gr-St)	EasyTymp (Maico)	MT10 (Interacoustics)	MicroTymp3 (WA)
I can use this device without reading the manual.	4	4	4	4
This device is intuitive.	4	4	4	4
This device is easy to use on an adult.	5	4	4	4
This device is easy to use on a child.	5	4	4	3
This device is relatively comfortable and noninvasive for the patient.	5	4	4	4
This device provides appropriate feedback to the user that it is functioning.	4	4	4	4
When using this unit, it is easy to view the screen.	5	4	5	3
When using this unit, it is easy to view the probe tip-ear seal.	5	3	3	2
It is simple to obtain a good seal using this tympanometer.	5	4	4	3
I made few mistakes using this device.	4	4	4	4
EASE of USE:				
Specific Control Features (1-5)	GSI 39 (Gr-St)	EasyTymp (Maico)	MT10 (Interacoustics)	MicroTymp3 (WA)
On/Off button	4	4	4	4
On/Off indicator	5	4	3	3
Patient ID	No	Yes	Yes	No
Test selection	5	5	5	5
L/R Ear ID	5	5	5	5
Saving Test	5	5	5	5
Memory	Yes	Yes	Yes	No
Keeping tests clear; avoiding test mix up	4	4	4	4
Erasing data	4	5	5	3
Data transfer	Yes	Yes	Yes	Yes
Printing	5	5	4	5
Battery level indicator	N/A	5	3	3
Unit charging indicator	N/A	5	3	5
SCREEN: Information Layout (1-5)				
GSI 39 (Gr-St)	EasyTymp (Maico)	MT10 (Interacoustics)	MicroTymp3 (WA)	
Graph, Resolution	4	5	4	2
Graph, Axes	4	4	4	4
Graph, Normals	4	4	4	4

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L/R Designation	4	4	4	3
Compliance Peak	5	5	5	3
Tympanic Peak Pressure	5	5	5	3
Ear Canal Volume	5	5	5	3
Gradient Width	5	5	5	3
Test Status: Ready, Testing	4	4	4	4
Seal Status: Open, Blocked, Leak	4	4	4	5
LCD SCREEN: Monitor				
(1-5)	GSI 39 (Gr-St)	EasyTymp (Maico)	MT10 (Interacoustics)	MicroTymp3 (WA)
Size	4	3	5	2
Brightness*	4	5	3	3
Glare free	4	3	3	3
Contrast**	4	4	4	4
Color	3	5	3	3
Resolution	4	5	4	3
Text Clarity Readability	4	4	5	3
Viewing Angle	90 deg	120 deg	60 deg	90 deg
PRINTING				
(1-5)	GSI 39 (Gr-St)	EasyTymp (Maico)	MT10 (Interacoustics)	MicroTymp3 (WA)
Printing indicator	4	4	4	4
Speed of printer	5 (5 sec)	5 (6 sec)	3 (15 sec)	5 (4.5 sec)
Data layout	5	5	5	5
Print quality	4	4	4	4
MAINTENANCE				
(1-5)	GSI 39 (Gr-St)	EasyTymp (Maico)	MT10 (Interacoustics)	MicroTymp3 (WA)
The probe tip is easily cleaned.	5	5	4	4
The handle and printer are easily wiped clean.	5	5	5	5
Ear tips are easily washed.	5	5	5	5
Batteries are easily changed.	NA	5	5	4
Printer paper is easily changed.	4	4	4	4
Calibration check (volume tool) is easy to perform.	5	5	5	5
This unit is easily maintained.	5	4	4	4
SOFTWARE INTERFACE				
(1-5)	GSI 39 (Gr-St)	EasyTymp (Maico)	MT10 (Interacoustics)	MicroTymp3 (WA)
There is capability for interface. (Yes/No)	Yes	Yes	Yes	Yes
ACCESSORIES				
(1-5)	GSI 39 (Gr-St)	EasyTymp (Maico)	MT10 (Interacoustics)	MicroTymp3 (WA)
Quality of ear tips	5	4	5	3

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Volume tool (Test Cavity)	5	5	5	5
Operation Manual	5	5	4	5
Service Manual	5			5
Battery	NA	DG-LiBat-001	AAA	WA #72910 3.7 V Lithium-ion
CAPABILITIES				
(Yes/No)	GSI 39 (Gr-St)	EasyTymp (Maico)	MT10 (Interacoustics)	MicroTymp3 (WA)
Standard tympanometry	Yes	Yes	Yes	Yes
Multiple tests in handle	Yes	Yes	Yes	No
Extended pressure tymp	Yes	Yes	Yes	Yes
Multi-layered 226 Hz & 1000Hz tymp	Yes	Yes	Yes	Yes
ART Ipsilateral	Yes	Yes	Yes	No
ART Contralateral	Yes	No	No	No
Audiometry Screening	Yes	No	Yes	No
Audiometry Manual & Threshold	Yes	No	No	No

Evaluation was both objective and subjective based on two user (joint) ratings using a Likert Scale where:

- 5 = Very Good
- 4 = Good
- 3 = O.K.
- 2 = Poor
- 1 = Very Poor