



## The ideal solution for portable use - a pocket middle-ear screener

The MADSEN Tymp-Screen middle-ear screener combines automatic tympanometry and reflex test capabilities in one handheld, portable unit with built-in infrared interface for transmitting data to a PC or printer. The Tymp-Screen may be supplied with an optional thermal printer which can also be used as a secure holder for the screener, especially during transportation. Weighing just 457 grams (16 oz.), the Tymp-Screen is ideal for using in physicians' and audiologists' clinics, as well as in any situation where portability is required, e.g. school screening programs, nursing home visits, etc.

### Simple and easy to use

The speed and ease with which the full screening test battery of tympanograms and ipsi reflex thresholds can be obtained for both ears make the Tymp-Screen the ideal middle-ear screener. All test functions can be started by pressing just one pushbutton, and you can follow the progress of the test on the display. When the tympanogram is complete, the display shows the curve as well as the compliance, base volume and pressure at the compliance peak.

Fast, automatic  
tympanometry

Quick and easy to  
obtain seal

Acoustic reflex  
testing

Weighs just 457  
grams (16 oz.)

Uses standard  
1.5 V batteries

Infrared  
transmission to  
printer or PC

High speed  
thermal printer

Smart, robust  
carrying case

**Acoustic reflex**

Automatic acoustic reflex threshold testing can be performed ipsilaterally at 500, 1000, 2000 and 4000 Hz, using an intensity of 95 dB HL. The measurement takes only 8 seconds. Reflex thresholds are displayed for each frequency in the form of a bar chart; scaling is automatic (0.25 cc or 0.5 cc).

**Graphic printer with infrared receiver, or Tymp-Link**

For hard copy of test results, just press one pushbutton on the Tymp-Screen and the data will automatically be transmitted to the infrared receiver on the optional Tymp printer. The printout includes fields for writing patient details and your comments prior to filing. Alternatively, the optional Tymp-Link™ data interface provides an infrared receiver which connects to your PC, and a NOAH-compatible software module for displaying, printing and storing test data.



**Battery operation**

Both the Tymp-Screen and the Tymp printer are battery operated (using 4 or 8 standard 1.5 V, AA type batteries, respectively). The screener automatically switches off 90 seconds after use to conserve power - a set of batteries will last for approximately 1000 tests.

**Technical specifications:**

<b>Probe Tone:</b>	226 Hz; 85 dB SPL in 2 cc ± 3 dB
<b>Measuring Range:</b>	Base vol. 0.0 to 5 cc; compliance 0.0 to 2 cc
<b>Pressure Range:</b>	From +200 to -300 daPa
<b>Reflex Stimuli:</b>	500, 1000, 2000 and 4000 Hz ± 3%; 95 dB HL
<b>Reflex Pressure:</b>	0 daPa
<b>Power Consumption:</b>	75 mA (5 mA in standby, and 100 mA for IR transmission)
<b>Dimensions:</b>	198 x 72 x 41 mm, 7.8" x 2.8" x 1.6" (W x D x H)
<b>Weight:</b>	457 g, 16.3 oz. (incl. batteries)
<b>Standards:</b>	In compliance with all specifications of applicable IEC and ANSI standards for immittance measuring equipment
<b>EMC:</b>	Complies with EN 60601-1-2
<b>Patient Safety:</b>	EN 60601-1, type B, standard for medical equipment
<b>Tymp Printer</b>	
<b>Printout:</b>	112 mm (4.4"), thermal paper
<b>Dimensions:</b>	460 x 200 x 80 mm, 18.1" x 7.9" x 3.1" (W x D x H)
<b>Weight:</b>	1.6 kg, 3.5 lbs. (incl. batteries)



**GN Otometrics**

Copenhagen-based GN Otometrics is the world's leading manufacturer of hearing and balance instrumentation and software, including solutions for infant screening applications, audiologic diagnostics, and office management software, to balance testing and hearing instrument fitting.