HANDHELD SCREENING TYPANOMETER

ALLEGRO
The GSI Allegro™ is a handheld screening device ready for any testing environment that requires tympanometry and ipsilateral reflexes. The Allegro offers a four button navigation that allows for quick and reliable testing. Automatic measurements of the middle ear status are completed in seconds using the device’s configurable test settings. The Allegro includes a charging cradle, thermal printer, and carrying case.
KEY FEATURES

QUICK SEAL
Quickly obtain a seal for tympanometry. Once a seal is obtained, testing begins immediately.

4 KEY TYMP MEASUREMENTS
Four key tymp measurements include peak pressure, ear canal volume, tympanometric width, and admittance at peak.

CUSTOMIZABLE USER SETTINGS
Global settings such as test sequence and test prompts may be defined by the user.

PORTABLE DESIGN
The Allegro is designed with portability in mind. The device is lightweight and perfect for any testing environment.

SIMPLE NAVIGATION
Four button navigation simplifies the testing procedures for a fast paced testing environment.

PATIENT MEMORY
Test multiple patients and manage the data at your convenience. The Allegro can store up to 32 patient test results to be analyzed and managed at a different time.
3 KEY BENEFITS

AS FAST AS THREE SECONDS
Perform a tympanogram on a single ear in as little as three seconds. Quick testing is crucial for testing a diverse patient population.

TRAINING IS EASY
New staff can begin testing with confidence within a few minutes. The Allegro is a device that is easy to use and easy to train others.

USE ON THE GO
The Allegro is ideal for situations such as a satellite clinic, where a lightweight device that is easy to transport is important. The device also comes with a carrying case.
TECHNICAL SPECIFICATIONS

DIMENSIONS AND WEIGHT
W x D x H: 4.5 in x 9 in x 2.8 in (11.5 cm x 23 cm x 7 cm)
Display: 128 x 64 px / 8 lines of 21 characters
Weight: 1.433 lb (650 g)

TYMPANOMETRY
Instrument Type: Meatus compensated tympanometer
Analysis Performed: Admittance peak level (in ml); Peak pressure of same; Gradient (in daPa); Ear canal volume (ECV) at 200 daPa
Probe Tone Levels and Accuracy: 226 Hz +/-2%; 85 dB SPL +/-2 dB over range 0.2 ml to 5 ml
Pressure Levels and Accuracy: +200 daPa to -400 daPa +/-10 daPa or +/-10% (whichever is larger) over range
Ear Volume Measurement Range and Accuracy: 0.2 ml to 5 ml +/-0.1 ml or +/-5% (whichever is larger) over entire range
Sweep Speed: Typically 200 daPa/sec; dependent on ear/cavity volume
Pressure Limits (Safety Cut Out): +600 to -800 daPa

REFLEX MEASUREMENTS
Measurement Modes: Ipsilateral
Reflex Tone Levels and Accuracy: 500 Hz, 1 kHz, 2 kHz, 4 kHz (+/-2%); Configurable over range 70 dB to 100 dBHL (4 kHz restricted to 95 dBHL) +/-3 dB, referenced to 2 ml calibration volume; Compensates for measured ear volume
Reflex Detection Threshold and Accuracy: 0.01 ml to 0.5 ml +/-0.01 ml configurable in 0.01 ml steps
Reflex Analysis: Reflex present/absent at each level tested; maximum amplitude of each reflex (seen on printed report & computer report); pressure at which reflex was performed
Pressure Used for Reflex Measurement: Pressure at Tympanogram peak, or 0 daPa
Reflex Tone Duration: 0.6 seconds

DATA MANAGEMENT
Number of Records Stored in Patient Database: 32 patients
Data Stored: Patient initials, tympanogram, reflex graphs, analysis, time/date, and test parameters

LANGUAGES
English, German, French, Spanish, Portuguese, or Italian

THERMAL PRINTER
Supported Printer: Sanibel MPT-II
Interface: Wired connection to cradle

INTERFACE TO COMPUTER
USB Version 1.1

ENVIRONMENTAL
Operating Temperature Range: +59° F (+15° C) to +95° F (+35° C)
Operating Humidity Range: 30% to 90% RH, non-condensing
Operating Atmospheric Pressure Range: 980 to 1040 mb, non-condensing
Transport and Storage Temperature Range: -68° F (-20° C) to +158° F (+70° C)
Transport and Storage Humidity Range: 10% to 90% RH, non-condensing
Transport and Storage Atmospheric Pressure Range: 900 to 1100 mb

POWER
Battery: NiMH rechargeable battery pack.
Interface: Wired connection to cradle
Main Power (To Cradle): 100 - 240 Vac; 50/60 Hz; 0.2 A
Number of Recordings with Full Charge: Up to 100
Auto Power-off Delay: 90 or 180 seconds
Idle Current: 70 mA
Current While Testing: 230 mA

QUALITY SYSTEM
Manufactured, designed, developed and marketed under ISO 13485 certified quality systems.

COMPLIANCE
• IEC 60601-1 (plus UL, CSA & EN deviations)
• IEC 60601-1-2
• IEC 60645-5, Type 2 Tympanometer
• CE Mark: To the EU Medical Device Directive