RELIABLE CLINICAL — YMPANOMETER

TECHNICAL **SPECIFICATIONS**

DIMENSIONS AND WEIGHT

W x D x H: 16 in x 11 in x 14.5 in (41 cm x 28 cm x 37 cm)

Weight: 12 lb (5.5 kg)

Test Types: Tympanometry, Acoustic Reflex Threshold, Reflex Decay, Eustachian Tube Function (Intact, Perforated, and Patulous)

Protocols: Diagnostic, Screening, Multi-component Tympanometry, Auto Sequence, and User

Display: Internal color touch screen and optional

external HDMI monitor

Interface: USB (keyboard, mouse, Flash Drive,

PC communications) Printout: External printer

Probe Tone:

 226 Hz (85 dB SPL ± 1.5 dB) 678 Hz (72 dB SPL ± 1.5 dB) 1000 Hz (69 dB SPL ± 1.5 dB)

Accuracy: ± 1%

· Harmonic Distortion: Less than 1%

ADMITTANCE MEASUREMENTS

Range: 226 Hz (-10 to + 10 mmho) 678 Hz (-21.0 to +21 mmho) 1000 Hz (-32.0 to +32 mmho)

Sensitivity Scale: Auto scales to appropriate range, manual selection also possible in Reflex Modes only

Accuracy (226 Hz):

- Tymp Mode: ± 5% of reading or ± 0.1 mmho, whichever is greater
- Reflex Mode: ± 5% of reading or ± 0.02 mmho, whichever is greater

PRESSURE MEASUREMENTS

(Load volume of 0.2 to 7.0 ml)

Range: Normal = +200 to -400 daPa, Wide = +400 to -600 daPa

Accuracy: ± 10% of reading or ± 10 daPa, whichever is greater

Sweep Rate: 12.5, 50.0, 200, 600 and 600/200 daPa and manual

Sweep Accuracy: 10% of nominal rate

Maximum Limits (in 0.5cc cavity): -800 daPa and +600 daPa

REFLEX MEASUREMENTS

Stimuli: 250, 500, 1k, 2k, 4k, BBN, LBN, HBN, click, external input, non-acoustic

Frequency Accuracy: ± 3%

Harmonic Distortion (THD): Less than 5%

(measured acoustically)

Noise Signals: (3 dB bandwidths) Low Band: 400 -1600 Hz

High Band: 1,600 -4000 Hz

Broad Band: 400 -4000 Hz

Intensity Range: 35 to 120 dB HL

Step Size: 5 dB, 1 dB and 2 dB Calibration Accuracy: ± 3 dB

Step Accuracy: ± 0.5 dB

ON/OFF Ratio: 70 dB minimum

STANDARD ACCESSORIES

- Probe assembly (including contralateral insert phone)
- · Ear tip sample kit
- Calibration test cavity
- Cleaning kit

· Probe mount kit (shoulder, clip, wrist band)

· User Quick Guide

ENVIRONMENTAL

Transport: -4° F (-20° C) to

98 kPa to 104 kPa

POWER

Power Consumption: 60 Watts Maximum

Input Voltage: 100-240 VAC Input Frequency: 50-60 Hz

Average Operating Current Idle: 220 mA Average Operating Current Running Test: 290 mA

OUALITY SYSTEM

Manufactured, designed, developed, and marketed under an ISO 13485 certified quality system

COMPLIANCE

- Designed, tested, and manufactured to meet the following domestic (USA), Canadian, European, and International Standards:
- IEC 60601-1, EN 60601-1 International Standards for Medical Electrical Equipment
- · CAN/CSA-C22.2 No. 60601-1
- ANSI S3.39, IEC 60645-5, ISO 389
- Medical Device Directive (MDD) 93/42/EEC

