Welch Allyn AM 282™ Manual Audiometer

- 11 frequencies: 125 Hz to 8000 Hz
- Wide intensity range
- Compact, lightweight design
- AC line power and battery
- Calibration storage for standard earphones and optional insert phones
- Ideal for physician’s office for screening audiometry
Technical Specifications

Standards and Compliance

- ANSI S3.6 (2004) Specification for Audiometers (Type 4)
- IEC 60645-1 (2002) Electroacoustics—Audiological Equipment—Pure Tone Audiometers (Type 4)
- UL 60601-1 Medical Electrical Equipment, Part 1—General Requirements for Safety

Frequency Range

- Discrete Frequencies 125, 250, 500, 1000, 1500, 2000, 3000, 4000, 6000, 8000 Hz
- Accuracy ± 2%
- Total Harmonic Distortion < 2.5% measured acoustically at the maximum Hz for frequencies below 5000 Hz and measured electrically above 5000 Hz

Intensity (Ranges* in increments of 5 dB steps)

- 125 Hz: -10 to 50 dB HL, 500 to 4000 Hz: -10 to 90 dB HL, 6000 Hz: -10 to 85 dB HL, 250 and 8000 Hz: -10 to 70 dB HL
- Accuracy 125 to 4000 Hz, ± 3 dB, 6000 to 8000 Hz, ± 5 dB
- Signal to Noise Ratio > 70 dB
- Rise/Fall Time 20-50 msec

Tone Type

- Continuous
- Pulsed 2.5 pulse/sec
- FM ±5%, 5 Hz, triangular modulation

Power

- Line Voltage The AC-DC adapter is universal autoranging with an input voltage range of 90 - 264 V at 47 - 63 Hz
- Consumption 1.5 watts
- Battery Types: 5 each alkaline AA 1.5 V, 5 each rechargeable nicad or NIMH AA 1.2 V
  Note: The instrument does not provide a recharging circuit for these batteries.
- Capacity Minimum of 10 hours of power for either battery type. A Low Battery icon will display when there is approximately one hour of power remaining.

Environmental

- Operating Temperature 59 °F to 104 °F (15 °C to 40 °C)
  Note: Warm-up time is required if storage temperature is different from room temperature
- Ambient Pressure 98 kPa to 104 kPa
- Warm-up Time 10 minutes for instruments stored at room temperature
- Storage/Shipping -30 °F to 149 °F (-34 °C to 65 °C)
- Battery Storage -4 °F to 105 °F (-20 °C to 40 °C)
- Humidity 15% to 95%

Mechanical

- Dimensions 12.59” W x 8.76” D x 3.18” H (32 cm W x 22.3 cm D x 8.1 cm H)
- Weight 2.55 lbs (1.16 kg) with 5 AA batteries

Electromagnetic Compatibility (EMC)

- Please refer to the Electromagnetic Compatibility Reference Guide on CD (part number 482-6387xx)

*The above intensity ranges apply to the external headset earphones.
Note: The maximum output values are reduced by 10 dB when insert phones are used, except for 6 kHz, where the maximum dB HL is reduced by 20 dB.
A “+10” dB button extends the maximum at all frequencies by 10 dB.

Supplied Accessories

- Audiometry headset, external
- Carrying case
- Audiogram forms (1 pad of 50)
- Directions for Use manual
- Threshold audiometry card
- Power plug/power supply

Optional Accessories

- Subject response handswitch ................ 23220
- Patch cord (1).............................. 23221
- DD45 audiometry headset external ........ 28203

Ordering Information

- USA and Canada AM 282 Manual Audiometer (w/case) ... 28200

Welch Allyn
Advancing Frontline Care™

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