

Welch Allyn brings precision audiometry to the table



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

WelchAllyn[®]
Advancing Frontline Care™

Technical Specifications

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| Standards and Compliance | ANSI S3.6 (2004) | Specification for Audiometers (Type 4) |
| | IEC 60645-1 (2002) | Electroacoustics—Audiological Equipment—Pure Tone Audiometers (Type 4) |
| | IEC 60601-1 (2003) | Medical Electrical Equipment, Part 1—General Requirements for Safety |
| | UL 60601-1 | Medical Electrical Equipment, Part 1—General Requirements for Safety |
| | CAN/CSA-C22.2 No. 601.1-M90 (2003) | Medical Electrical Equipment, Part 1—General Requirements for Safety |
| | IEC/EN 60601-1-2 (2001) | Medical Electrical Equipment, Part 1—Electromagnetic Compatibility Requirements |
| Frequency Range | Discrete Frequencies | 125, 250, 500, 750, 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 | Steady when present bar depressed |
| | Pulsed | 2.5 pulse/sec |
| | FM | ±5%, 5 Hz, triangular modulation |
| DD45 Headset | External Headset Earphones with Type 51 Cushions (10 ohm impedance) | |
| | Headband | Exerts a force between 4 and 5 N when the earphones are separated by 145 mm |
| 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 |
| | <i>Note: The instrument does not provide a recharging circuit for these batteries.</i> | |
| | 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) |
| | <i>Note: Warm-up time is required if storage temperature is different from room temperature.</i> | |
| | 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

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

Ordering Information

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

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