

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**<sup>®</sup>  
Advancing Frontline Care™

# 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)
	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

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



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