

Sontro® OTC Hearing Aids

Wireless Technical Data

- Your Soundwave Hearing Aids are classified as Class II Type B per IEC 60601-1 Medical Electrical Equipment.
- This hearing aid model has been tested to, and has, the following EMC, emissions, and immunity tests:
 - IEC 60601-1-2 radiated emissions requirements for a Group 1, Class B device as stated in CISPR 11.
 - Immunity to ESD levels of +/- 8 kV conducted discharge and +/- 15 kV air discharge.

Operating Conditions

- Temperature Range: 32°F 104°F (0°C 40°C)
- Humidity Range: 0 95% RH Pressure Range: 70 110 kPa

Storage / Transport Conditions

- Temperature Range: -13°F 158°F (-25°C 70°C)
- Humidity Range: 0 90% RH
- Pressure Range: 70 110 kPa
- Time to warm from minimum storage temperature before use: 1 hour (ambient temperature 68°F or 20°C)
- Time to cool from maximum storage temperature before use: 1 hour (ambient temperature 68°F or 20°C)

FCC Information

- FCC ID 2AYY5-AI, FCC ID 2AYY5-AIS
- Radio Technology: Bluetooth Low Energy (BLE) and proprietary technologies
- Radio Transceiver Frequency Range: 2.4 to 2.4835 GHz
- Radio Receiver Bandwidth: 2 MHz
- Modulation Type: 1 Mb/s and 2 Mb/s GFSK
- GFSK Peak Effective Isotropic Radiated Power: 0 dBm
- This equipment has been tested and found to comply with the limits per CISPR 11 class B

619 Enterprise Drive, Suite 205, Oak Brook, IL 60523 hearsoundwave.com



Features per ANSI/CTA-2051:2017

- The Sontro Hearing Aids have level-dependent frequency equalization that is adjusted via user controls.
- Level-Dependent Gain/Compression utilizes 16-channel Wide Dynamic Range Compression.
- Adaptive Directional microphones and advanced signal processing manage noise coming from different directions.
- Signal-to-Noise Ratio Enhancement has user-selectable directional microphones to emphasize sounds from in front, making conversations in noisy places easier.
- Feedback Cancellation is used to reduce feedback (whistling).
- The Sontro Hearing Aids intelligently monitor your environment and automatically select the most appropriate sound mode, when the Sontro Hearing Aids are in Automatic mode.
- A hearing test is self-fitted by the otoTune app on a mobile phone and used to program the Sontro Hearing Aids.
- Coupling to the ear has a user-adjustable fit for greater comfort and better sound quality. The ear domes are tulip, open, or power domes.
- Wireless Connectivity uses Bluetooth technology to control the hearing aids via a paired mobile phone.

ANSI S3.22 / IEC 6118-7 2CC COUPLER

ANSI S3.22 / IEC 60118-7 2CC COUPLER

Activated Input-Controlled Compression (90 dB SPL input)	Max	112	dB SPL
	HFA	107	
Full-on gain (50 dB SPL input)	HFA	42	dB
Reference test gain (60 dB SPL input)	HFA	24	dB
	Max	27	
Frequency range (Memory-4)	200 - 8000		Hz
Total Harmonic Distortion	500Hz	0.9	%
	800Hz	1.0	
	1600 Hz	0.4	
Equivalent Input Noise (Noise Reduction Disabled)		25	dB SPL
Current drain (battery)		1.3	mA
Supply Voltage - Std 312		1.3	V
Attack Time		<1	mS
Release Time		9	mS

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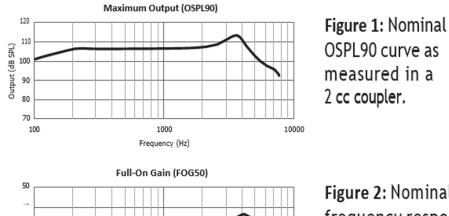
30 Gain (dB)

20

10 0 100

IEC 60318-5 2cc Coupler

Full on Gain / Maximum Output



1000

Frequency (Hz)

Figure 2: Nominal frequency response curve as measured in a <u>2 cc</u> coupler.

U.S. PATENT NOS. 10,617,334 | 11,076,779 | 11,213,680 AND ADDITIONAL PATENTS PENDING

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