

ADVANCED COUPLER TESTS

on the FONIX 7000 Hearing Aid Test System

In addition to the Enhanced DSP test of group delay and phase, the FONIX 7000 Test System has three advanced coupler measurement screens: Battery Current, Coupler I/O, and Attack & Release. Together, these screens will help you determine important information about the characteristics of the hearing aid that the ANSI and IEC standards do not provide.

Battery Current Test

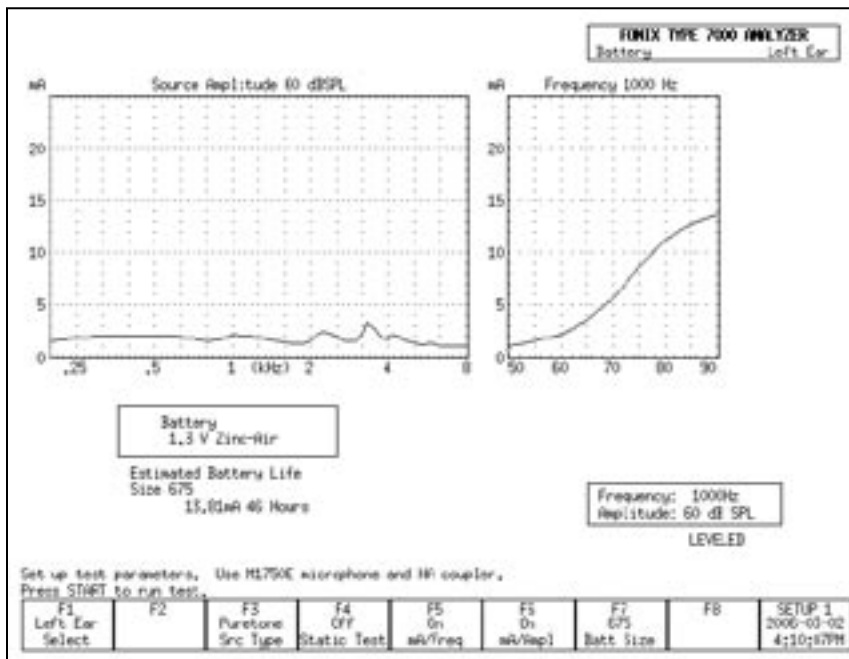
The battery current test screen gives you extensive information on how much battery current the hearing aid drains. There are three main tests:

- Estimated battery life
- Battery current drain by frequency (mA/Freq)
- Battery current drain by amplitude (mA/Ampl)

some frequencies than at other frequencies. The mA/Ampl test tells you how the battery current varies when exposed to signals of different amplitudes. Together, this tells you just about everything you need to know about the battery current drain of the hearing aid. You can pass on this knowledge to your client so they will know how long a battery should last in his hearing aid and which situations might cause this to vary.

Coupler I/O

The Coupler I/O test screen allows you to test the hearing aid's compression at any frequency between 200 and 8000 Hz (in 100 Hz intervals). This will also allow you to verify the crossover frequencies of the hearing aid and determine if the channels of the hearing aid are working independently. Results are displayed in both graphical and data format.



Attack & Release

Measure the hearing aid's attack and release characteristics at the frequency of your choice, completely outside the ANSI test sequence. Test results are given in graphical format, allowing you to see exactly how the hearing aid reacts in the critical milliseconds following large changes in amplitude. You can rescale both the attack and the release graphs independently, allowing you to zoom in on the important parts of the test.

The estimated battery life tells you how many hours you can expect a battery to last inside the hearing aid. The mA/Freq test determines if the hearing aid drains more battery current at



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