

Test System UPL + UPL-B7 for Hearing Aids

Measurements on hearing aids to IEC118 or ANSI S3.22

- Versatile applications in
 - development
 - production
 - quality management
- All standard measurements, eg
 - frequency response
 - sound pressure level
 - transfer characteristics
 - THD
 - equivalent inherent noise
 - attack and release times
 - current drain

- User-defined tests
- Tolerance checks
- Telecoil measurements



Complete test assembly for hearing aids

Audio Analyzer UPL (see data sheet 757.2238) in conjunction with option UPL-B7 is a complete test system for all standard measurements on hearing aids. To carry out such measurements, UPL only requires the options Audio Monitoring (UPL-B5) and Universal Sequence Controller (UPL-B10).

The test system meets all the requirements relevant in the production, quality management and service of hearing aids. The HEARPRO software supplied with the system allows the user to generate test routines tailored to the specific characteristics of the device under test. The type and sequence of measurements are freely selectable. All test parameters can be accurately defined.



Attack and release times of automatic gain control of hearing aid

Option UPL-B7 includes

- a compact acoustic test chamber
- a complete set of cables
- a 2 cm³ coupler with built-in microphone and calibration adapter
- a set of battery adapters for all commercial battery sizes for DUT power supply

Calibration of the complete test setup requires a sound level calibrator and a test microphone which are not part of the equipment supplied.

For all relevant measurements

The convenient HEARPRO test software supplied with the system can handle measurements according to standards EN60118 or ANSI S3.22-1996. All standard measurements can be carried out:

- SSPL curves
- adjustment to reference gain
- OSPL curves
- equivalent inherent noise
- THD at selectable frequencies
- battery current drain
- output sound pressure as a function of input sound pressure
- attack and release times of units using AGC

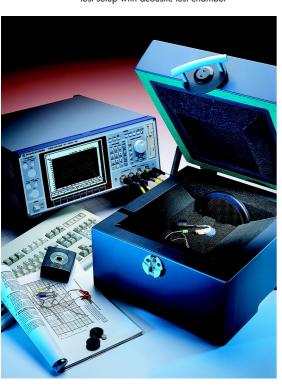
- groups of curves, eg for displaying the effect of frequency response setting at selectable sound pressure levels
- settings for telecoil measurements on hearing aid
- OSPL curve with telecoil
- THD with telecoil

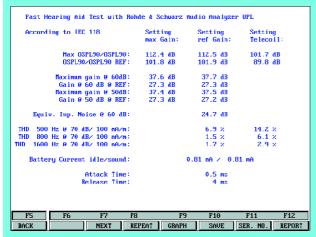
Powerful in production

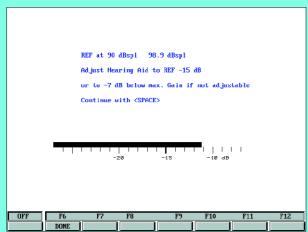
The high measurement speed of the system makes for high throughput in production applications. This can be further optimized by adapting the measurement speed to the DUT response.

Frequency response measurements and test results can be subjected to automatic tolerance checks. The results of these checks are documented and stored as PASS or FAIL results together with all test curves. This ensures consistent production quality. The clear-cut logging of all measurements facilitates evaluation of relevant parameters.

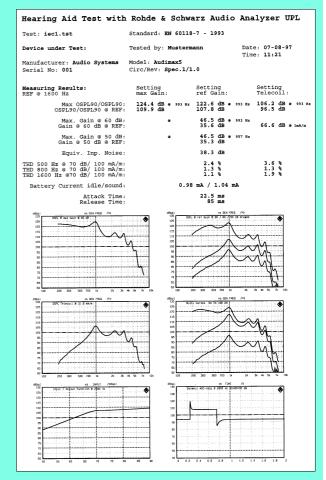




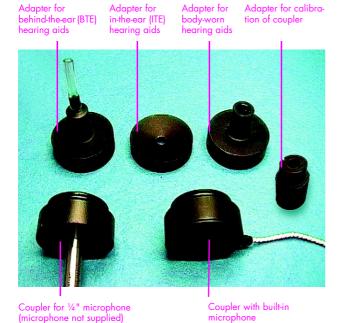




Screen display of results (top) and setting aid for acoustic gain of hearing aid (bottom)



Log printout



Specifications for UPL with UPL-B7

Max. sound pressure THD

Ambient noise attenuation

Frequency response of acoustic chamber without correction Feedthroughs for

>100 dBSPL, typ. 110 dBSPL <0.3% for 90 dBSPL >40 dB (20 Hz to 1500 Hz) >45 dB (>1500 Hz)

±2 dB (100 Hz to 8000 Hz)

- microphone connector for coupler with built-in microphone
- battery adapter
- 2 x 5-contact Mini-DIN for Hi-Pro programmer and ¼" microphone preamplifier (GRAS 26 AC-R can be used)

Dimensions of acoustic chamber (W x H x D)
Weight

365 mm x 260 mm x 400 mm 22 kg



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Fax Reply (Test System UPL + UPL-B7 for Hearing Aids)

