Programmable

unitron hearing™

Sound F/X P Pro
Mini-BTE
Power, Multi-Channel Wide Dynamic Range Compression

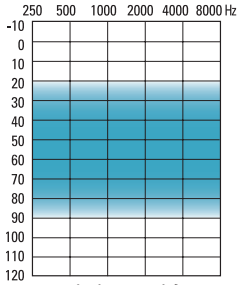
HEARING AID FEATURES

- Two channels with Wide Dynamic Range Compression circuitry that is independently adjustable for each channel
- Five parameters provide extensive fitting flexibility:
  - GL – Low-channel Gain
  - GH – High-channel Gain
  - F – Crossover Frequency
  - TK – Threshold Kneepoint
  - P – Power
- Class D circuitry for excellent battery life
- Slim mini-housing
- Maximum Power Output tied to Volume Control
- Volume Control: numbered 1 (low) to 4 (high)
- O-T-M Switch: 3 positions Off–Telecoil–Microphone
- Direct Audio Input - MLx compatible
- Two-tone, beige/taupe housing
- Filtered earhook
- Battery size: 13
- Sound F/X can be programmed using NOAH-compatible Unifit, Standalone Unifit or portable Pocket Unifit software

OPTIONS

- O–T–MT–M Switch: 4 positions Off–Telecoil–Microphone/Telecoil–Microphone
- O–MT–M Switch: 3 positions Off–Microphone/Telecoil–Microphone
- Tamper-resistant battery compartment/Volume Control cover
- CROS/BiCROS
- Child-sized earhook
- Sideplate colours: opaque taupe, brown and grey; transparent red, green and blue; fluorescent pink and yellow

SUITABLE FOR FITTING MODERATE TO SEVERE HEARING LOSSES.



Fitting Guide

IEC 118 - 0 TECHNICAL DATA

Frequency Range	100 - 8000 Hz
Peak Gain (40 dB in)	74 dB
Peak Output	129 dB
Reference Test Gain	49 dB
Full on Average Gain*	65 dB
Average Output*	124 dB
Reference Test Frequency	1.6 kHz
Full on Gain at 1.6 kHz (50 dB in)	64 dB
Output at 1.6 kHz	125 dB
Typical Battery Life (Zinc Air Premium)	320 h
Current Drain at RTG	‹ 0.9 mA
Output with Inductive Input at 1.6 kHz	95 dB
Equivalent Input Noise at RTG (50 dB in) typical 21 dB	‹ 28 dB
Fast Time Constant	
Attack Time	5 ms
Release Time	20 ms
Slow Time Constant	
Attack Time	200 ms
Release Time	400 ms
Compression Ratio	4:1 to 1:1

*Average of 500, 1000, and 2000 Hz

IEC 118-7 2cc TECHNICAL DATA

Frequency Range	100 - 8000 Hz
Peak Gain (40 dB in)	65 dB
Peak Output	121 dB
Reference Test Gain	41 dB
Full on Gain at 1.6 kHz	56 dB
Output at 1.6 kHz	116 dB

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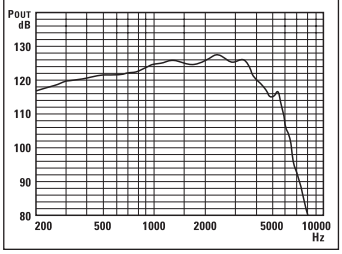
CE 0543

SOUND F/X P PROGRAMMABLE MINI-BTE IEC 118-0 EAR SIMULATOR

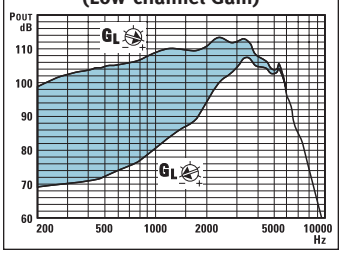
OSPL90



Input sound pressure level: 90 dB
Volume Control: full on

GL	GH	F	TK	P
+	+	–	–	+

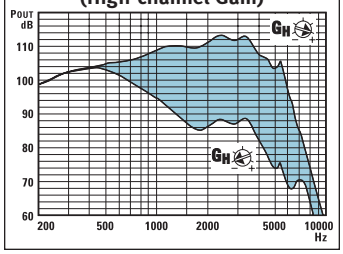
EFFECT OF GL PARAMETER (Low-channel Gain)



Input sound pressure level: 60 dB
Volume Control: RTG

GH	F	TK	P
+	+	–	+

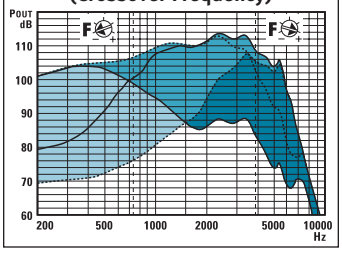
EFFECT OF GH PARAMETER (High-channel Gain)



Input sound pressure level: 60 dB
Volume Control: RTG

GL	F	TK	P
+	–	–	+

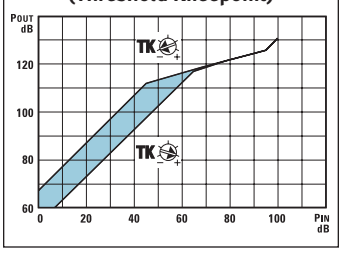
EFFECT OF F PARAMETER (Crossover Frequency)



Input sound pressure level: 60 dB
Volume Control: RTG

GL	GH	TK	P
+/–	+/–	–	+

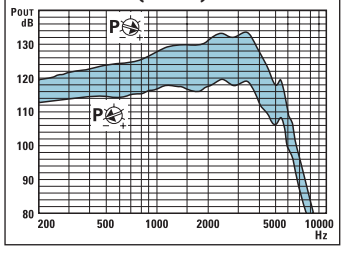
EFFECT OF TK PARAMETER (Threshold Kneepoint)



Input at 1600 Hz
Volume Control: full on

GL	GH	F	P
+	+	–	+

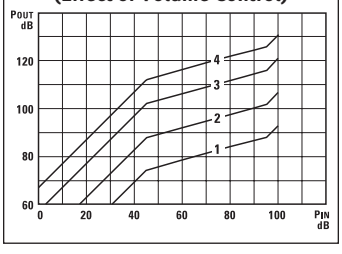
EFFECT OF P PARAMETER (Power)



Input sound pressure level: 100 dB
Volume Control: full on

GL	GH	F	TK
+	+	–	–

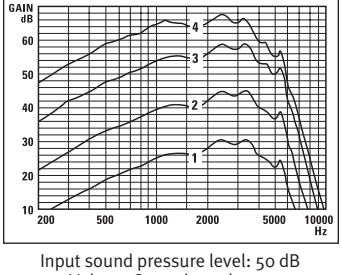
INPUT-OUTPUT CURVES (Effect of Volume Control)



Input at 1600 Hz
Volume Control: as shown

GL	GH	F	TK	P
+	+	–	–	+

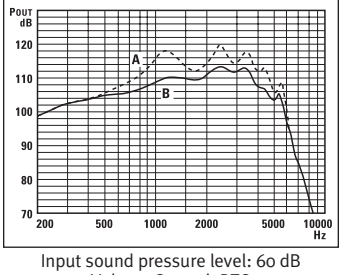
VOLUME CONTROL RANGE



Input sound pressure level: 50 dB
Volume Control: as shown

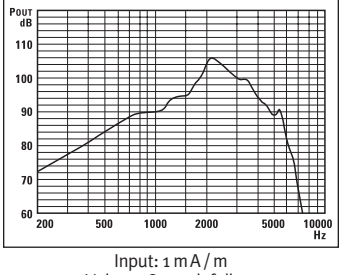
GL	GH	F	TK	P
+	+	–	–	+

EFFECT OF EARHOOK FILTER



Input sound pressure level: 60 dB
Volume Control: RTG
"A" unfiltered, not recommended
"B" filtered, standard

TELECOIL RESPONSE

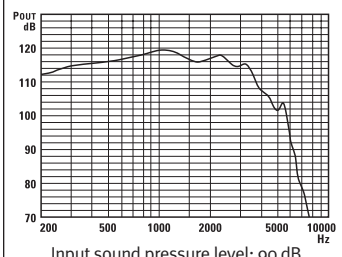


Input: 1 mA/m
Volume Control: full on

GL	GH	F	TK	P
+	+	–	–	+

IEC 118 -7 2cc COUPLER

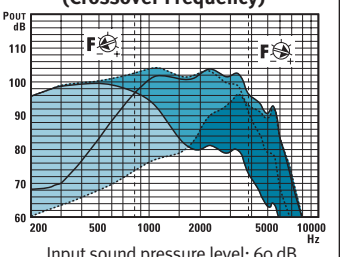
OSPL90



Input sound pressure level: 90 dB
Volume Control: full on

GL	GH	F	TK	P
+	+	–	–	+

EFFECT OF F PARAMETER (Crossover Frequency)



Input sound pressure level: 60 dB
Volume Control: RTG

GL	GH	TK	P
+/–	+/–	–	+

TEST CONDITIONS

RTG-IEC: Reference Test Gain of the Volume Control: 3.5

BATTERY: 13 Zinc Air Premium

SOURCE: Voltage 1.3 V
Impedance 6 Ohms

EARHOOK: Filtered

TUBING: Length 25 mm,
Inside Diameter 1.93 mm

Refer to: "Summary of Test Conditions and Limits" for more details.

AID MARKING: S F/X P Pro

COMPLIANCE

Our products are designed to meet all of the limits required when tested in accordance with the applicable standard.

REFERENCES

IEC: International Electrotechnical Commission Publication 118-0, 118-7 (1994)

European Standard EN60118/A1 February, 1994

DIN: Deutsche Normen DIN 45 605 (1986)

JIS: Japanese Industrial Standard JIS C 5512-2000

We reserve the right to change specification data without notice as improvements are introduced.

This product is manufactured under the protection of U.S. Patent #4349082 & #5204917.

Caution: Hearing aids and batteries can be harmful if swallowed or improperly used.

unitron hearing™

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