

Technical Data

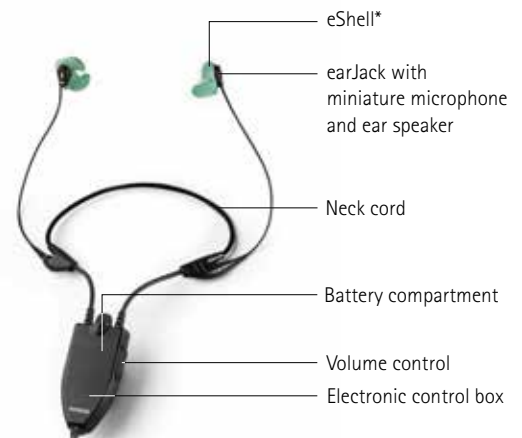
Modular dynamic hearing protection

Serenity DP+ is a dynamic hearing protection system with level-dependent attenuation. It instantly dampens loud noises such as machine sounds or gun shots down to a comfortable level. Immediately after these noises dissipate, Serenity DP+ re-adjusts so that normal sounds such as conversations and warning signals can be heard as normal.

Serenity DP+

Features :

- Electronic, level-dependent protection
- Binaural microphones and speakers within earJacks for localization of warning signals
- Volume control for enhanced perception
- Custom molded (eShells) or generic ear shells
- Protection level verifiable with SafetyMeter
- Compatible with helmets, masks and glasses
- Neck cord with safety breaks

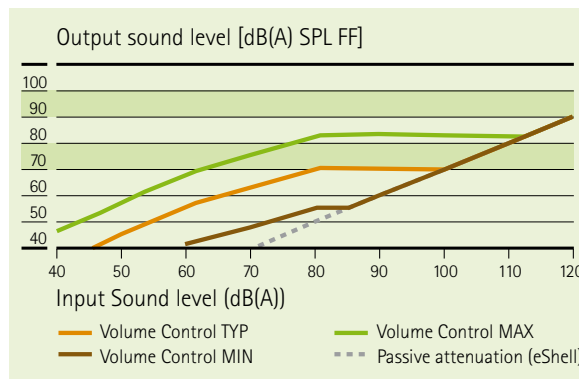


Serenity DP+

General Features

- Weight** Serenity DP+ 61g
- Misc**
 Unique user ID marking on each custom molded eShell
 Fixing clip (adjustable)
- Optional**
 Metal detection (for eShells)
 Generic ear shells

Acoustic Gain Model



Hearing Protection Specifications (Serenity DP+)

Serenity DP+ complies with EU directive 89/686/EEC and is tested and certified according to EN 352-7.

- Passive attenuation SNR = 24 dB (electronic attenuation switched off)
 Level-dependent attenuation H: 108 dB / M: 105 dB / L: 99 dB *

* High H, medium M and low L criteria levels at which in-ear sound pressure first exceeds 85 dB(A) with electronic attenuation switched on.

Technical Specifications

Serenity DP+	
Max. level of ambient sound at ear speaker	83 (± 2) dB(A) free field equivalent
Attack / Release time	0 ms / 200 ms
Volume control range	-15 dB - +12 dB vs. natural hearing
Battery size, supply voltage, life	LR03 (AAA), 1.2 V - 1.5 V, min. 200 h
Power consumption (internal battery)	Typ. 6 mA
Operational temperature range	-20°C ... +60°C
Housing category	IP 54
Cable pull force	50 N
Cord opening force (security break)	25 N
Electromagnetic compatibility (EMC)	EN 55022, EN 55024
Inflammability	EN 13819-1 ch5.6

