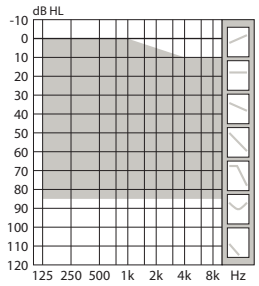
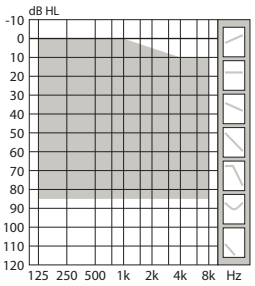
Technical data sheet

Oticon Opn 1



Oticon Opn 2 & 3



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		Oticon Opn 1	Oticon Opn 2	Oticon Opn 3
Speech Understanding	OpenSound Navigator™	Level 1	Level 2	Level 3
	Max. noise removal	9 dB	5 dB	3 dB
	Speech Guard™ LX	Level 1	Level 2	Level 3
	Spatial Sound™ LX***	4 estimators (○)	2 estimators (○)	2 estimators (○)
	Soft Speech Booster LX	•	•	•
	Speech Rescue™ LX	•	•	•
Sound Quality	Clear Dynamics	•	•	-
	Spatial Noise Management***	○	○	-
	Fitting Bandwidth*	10 KHz	8 KHz	8 KHz
	Processing Channels	64	48	48
Listening Comfort	Transient Noise Management	4 configurations	On/Off	On/Off
	Feedback shield LX	•	•	•
	Binaural Coordination****	○	○	○
Personalization & Optimizing Fitting	YouMatic™ LX	3 configurations	2 configurations	1 configuration
	Fitting Bands	16	14	12
	Adaptation Management	•	•	•
	Oticon Firmware Updater	•	•	•
	Fitting Formulas	VAC+, NAL-NL1+2, DSL v5.0	VAC+, NAL-NL1+2, DSL v5.0	VAC+, NAL-NL1+2, DSL v5.0
	Acoustic Notifications	•	•	•
	Tinnitus SoundSupport™****	○	○	○
	Battery life, hours**	60-70	60-70	60-70

* Bandwidth accessible for gain adjustments during fitting
** Battery size 10 - IEC PR70.
Real usage battery life is shown as an estimated interval based on mixed use cases with variable amplification settings and variable input levels.
*** If NFMI is choosen
**** If NFMI and push button is choosen

• Default
○ Optional
- Not included

OTICON | **Opn**
CIC 85

OpenSound Navigator™ continuously analyzes the environment and attenuates the disturbing noise.

NFMI wireless technology is optional and provides binaural communication

Oticon Opn is built on the Velox™ platform, providing frequency resolution in 64 channels (Opn 1).

Fully programmable with updatable firmware, the Velox platform is ready for the future.

Oticon BrainHearing™ Technology
Powered by Velox™

IP68

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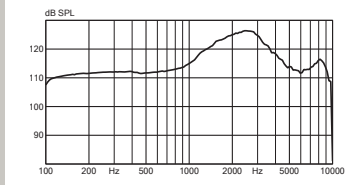
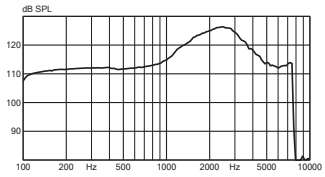
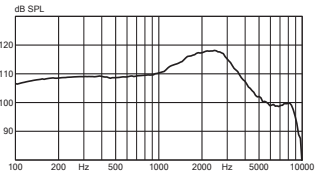
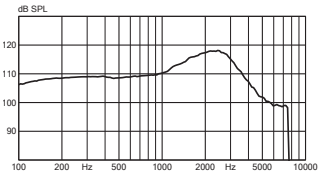
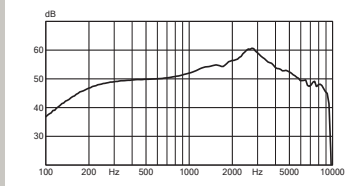
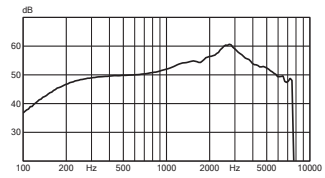
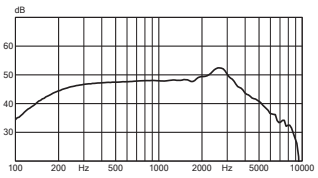
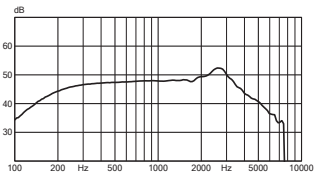
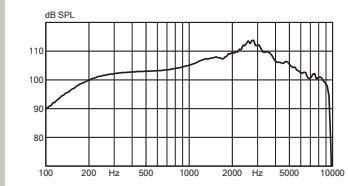
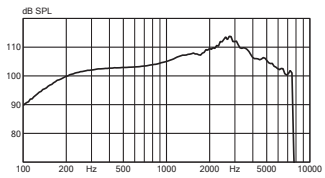
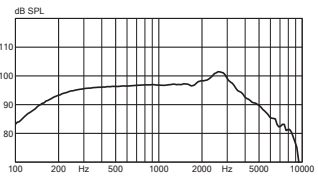
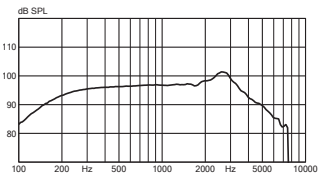
Technical data Measured according to		**Ear Simulator** IEC 60118-0:1983/AMD1:1994, IEC 60118-0:2015, IEC 60118-1:1995+AMD1:1998 CSV and IEC 60318-4:2010			**2CC Coupler** ANSI S3.22-2014, IEC 60118-0:2015 and IEC 60318-5:2006		
Oticon Opn CIC 85		Opn 1	Opn 2	Opn 3	Opn 1	Opn 2	Opn 3
Frequency range Hz		100-9500	100-7500	100-7500	100-9000	100-7500	100-7500
OSPL90	Peak	126 dB SPL			118 dB SPL		
	1600 Hz	123 dB SPL			116 dB SPL		
	HFA-OSPL90	121 dB SPL			115 dB SPL		
Full-on gain*	Peak	61 dB			52 dB		
	1600 Hz	55 dB			48 dB		
	HFA-FOG	56 dB			49 dB		
Reference test gain		48 dB			38 dB		
Telecoil output (1600 Hz)	1 mA/m field	-			-		
	10 mA/m field	-			-		
	SPLITS L/R	-			-		
Total harmonic distortion (Input 70 dB SPL)	500 Hz	2 %			<2 %		
	800 Hz	3 %			<2 %		
	1600 Hz	4 %			2 %		
Equivalent input noise level	Omni	20 dB SPL			17 dB SPL		
Battery consumption**	Typical	1.1 mA			1.3 mA		
	Quiescent	1.0 mA			1.0 mA		
Battery life, calculated, hours***		90			80		
IRIL (IEC 60118-13:2016)		700/1400/2000 MHz: 19/11/26 dB SPL					

* Measured with the gain control of the hearing aid set to its full-on position minus 20 dB and with an input SPL of 70 dB. This is to obtain a gain response equal to the full-on gain response from e.g. IEC 60118-0+A1:1994 but without influence of feedback.

** Battery current is measured according to IEC 60118-0:1983/AMD1:1994 §7.11, IEC 60118-0:2015 §7.7 and ANSI S3.22:2014 §6.13 after a settling time of minimum 3 minutes.

*** Based on the standardised battery consumption measurement (IEC 60118-0:1983/AMD1:1994). The actual battery life depends on battery quality, use pattern, active feature set, hearing loss and sound environment.

	Oticon Opn 1 Ear simulator	Oticon Opn 2 & Opn 3 Ear simulator	Oticon Opn 1 2CC Coupler	Oticon Opn 2 & Opn 3 2CC Coupler
OSPL90				
Full-on Gain				
Frequency Response				

Technical information: Omnidirectional mode is used unless otherwise stated.

Operating conditions
Temperature: +1°C to +40°C

Relative humidity:
5% to 93%, non-condensing

Storage and transportation conditions
Temperature and humidity should not exceed the following limits for extended periods during transportation and storage.

Temperature: -25°C to +60°C
Relative humidity: 5% to 93%, non-condensing

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