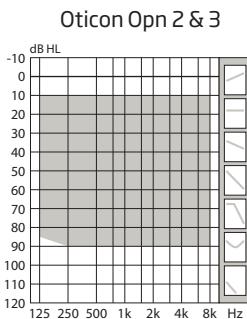
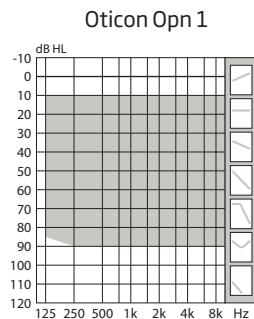


# Technical data sheet



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## General features:

- Digital Programmable
- Automatic or Manual Volume Control
- Maximum Output Control System
- MPO-Maximum Power Output
- GC-Gain Control
- AGC-Automatic Gain Control
- Noise Reduction
- Feedback Management
- Dual Microphone
- 4 Programs (when push button is selected)

	Oticon Opn 1	Oticon Opn 2	Oticon Opn 3
<b>Speech Understanding</b>			
OpenSound Navigator™	Level 1	Level 2	Level 3
- Balancing power effect	100%	50%	50%
- 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	•	•	•
<b>Sound Quality</b>			
Clear Dynamics	•	•	-
Spatial Noise Management	•	•	-
Fitting Bandwidth*	10 KHz	8 KHz	8 KHz
Processing Channels	64	48	48
Bass Boost (streaming)	•	•	•
<b>Listening Comfort</b>			
Transient Noise Management	4 configurations	On/Off	On/Off
Feedback shield LX	•	•	•
Wind Noise Management	•	•	•
Binaural Coordination***	•	•	•
<b>Personalisation &amp; Optimising Fitting</b>			
YouMatic™ LX	3 configurations	2 configurations	1 configuration
Fitting Bands	16	14	12
Multiple Directionality Options	•	•	•
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	•	•	•
<b>Connecting to the World</b>			
Stereo streaming (2.4 GHz)	○	○	○
Oticon ON App	○	○	○
ConnectClip	○	○	○
Remote Control 3.0	○	○	○
TV Adapter 3.0	○	○	○
Autophone	○	○	○
Tinnitus SoundSupport™***	•	•	•
<b>Battery life, hours**</b>	55-60 / 105-115	55-60 / 105-115	55-60 / 105-115

\* Bandwidth accessible for gain adjustments during fitting

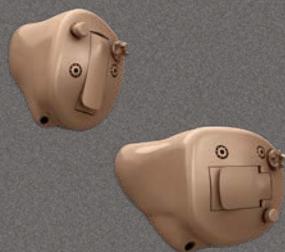
\*\* Battery size 312 - IEC PR41 / Battery size 13 - IEC PR48.

Real usage battery life is shown as an estimated interval based on mixed use cases with variable amplification settings and variable input levels, incl. direct stereo streaming from a TV (25% of the time) and streaming from a mobile phone (6% of the time).

\*\*\* If push button is chosen

• Default ○ Optional - Not included

OTICON | Opn  
ITC, ITE HS & FS 90



Oticon Opn™ ITC, ITE HS & FS introduce an updated faceplate design.

OpenSound Navigator™ provides better speech understanding by continuously analysing the environment, balancing all sound sources and attenuating the dominating noise.

TwinLink™ wireless technology combines binaural communication and 2.4 GHz connectivity in stereo directly to external digital devices with very low power consumption. 2.4 GHz is an optional.

Oticon Opn is a Made for iPhone® hearing aid.

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.



Made for  
iPhone | iPad | iPod

IP68

For information on compatibility, please visit [www.oticon.global/connectivity](http://www.oticon.global/connectivity).

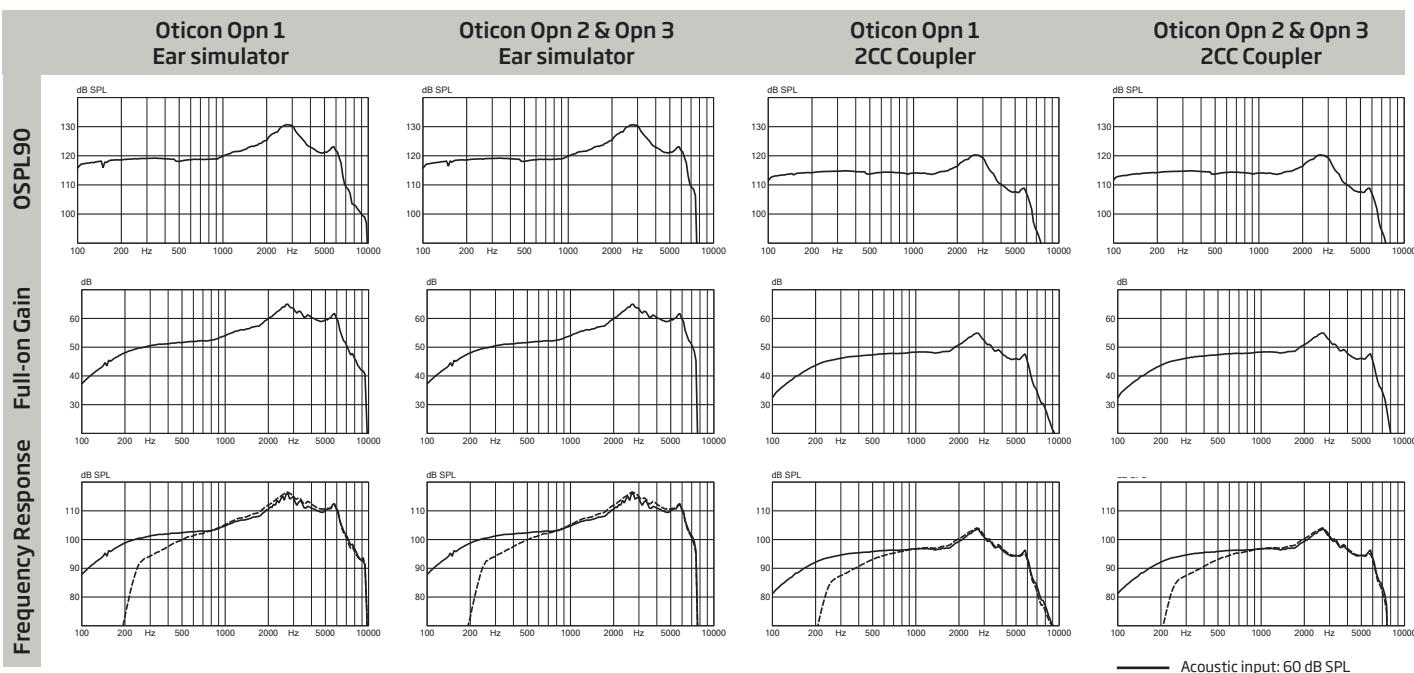
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Technical data			Ear Simulator			2CC Coupler		
			IEC 60118-0:1983/AMD1:1994, IEC 60118-0:2015, IEC 60118-1:1995+AMD1:1998 CSV and IEC 60318-4:2010			ANSI S3.22-2014, IEC 60118-0:2015 and IEC 60318-5:2006		
Oticon Opn ITC ITE HS & FS 90			Opn 1	Opn 2	Opn 3	Opn 1	Opn 2	Opn 3
Frequency range Hz			110-9500	110-7500	110-7500	100-7900	100-7500	100-7500
MPO-OSPL90	Peak			131 dB SPL			120 dB SPL	
	1600 Hz			123 dB SPL			115 dB SPL	
	HFA-OSPL90			124 dB SPL			116 dB SPL	
Full-on gain*	Peak			65 dB			55 dB	
	1600 Hz			57 dB			48 dB	
	HFA-FOG			58 dB			50 dB	
Reference test gain				48 dB			39 dB	
Telecoil output (1600 Hz)	1 mA/m field			87 dB SPL			-	
	10 mA/m field			107 dB SPL			-	
	SPLITS L/R			-			96/96 dB SPL	
Total harmonic distortion (Input 70 dB SPL)	500 Hz			2 %			<2 %	
	800 Hz			2 %			<2 %	
	1600 Hz			2 %			<2 %	
Equivalent input noise level	Omni			18 dB SPL			15 dB SPL	
	Dir			28 dB SPL			27 dB SPL	
Battery consumption**	Typical			1.8 mA			1.8 mA	
	Quiescent			1.7 mA			1.7 mA	
Battery life, calculated, hours 312 and 13***				100 / 175			100 / 170	
IRIL (IEC 60118-13:2016)				700/1400/2000 MHz: 20/12/6 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.



**Technical information:** Omnidirectional mode is used unless otherwise stated.

Operating conditions	Storage and transportation conditions
Temperature: +1°C to +40°C	Temperature and humidity should not exceed the following limits for extended periods during transportation and storage.
Relative humidity: 5% to 93%, non-condensing	Temperature: -25°C to +60°C Relative humidity: 5% to 93%, non-condensing