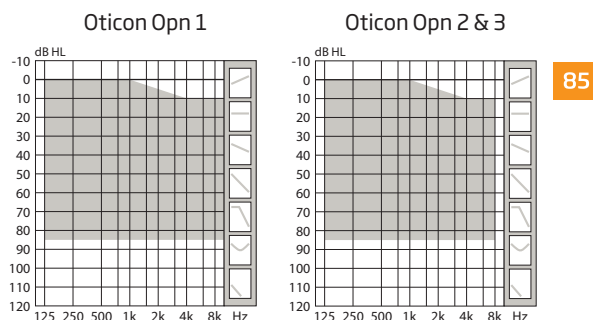


# Technical data sheet

OTICON | **Opn**

IIC 85



	Oticon Opn 1	Oticon Opn 2	Oticon Opn 3
<b>Speech Understanding</b>			
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
Soft Speech Booster LX	•	•	•
Speech Rescue™ LX	•	•	•
<b>Sound Quality</b>			
Clear Dynamics	•	•	-
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	•	•	•
<b>Personalisation &amp; Optimising Fitting</b>			
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	•	•	•
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.

• Default  
- Not included

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

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.



IP68

**General features:**

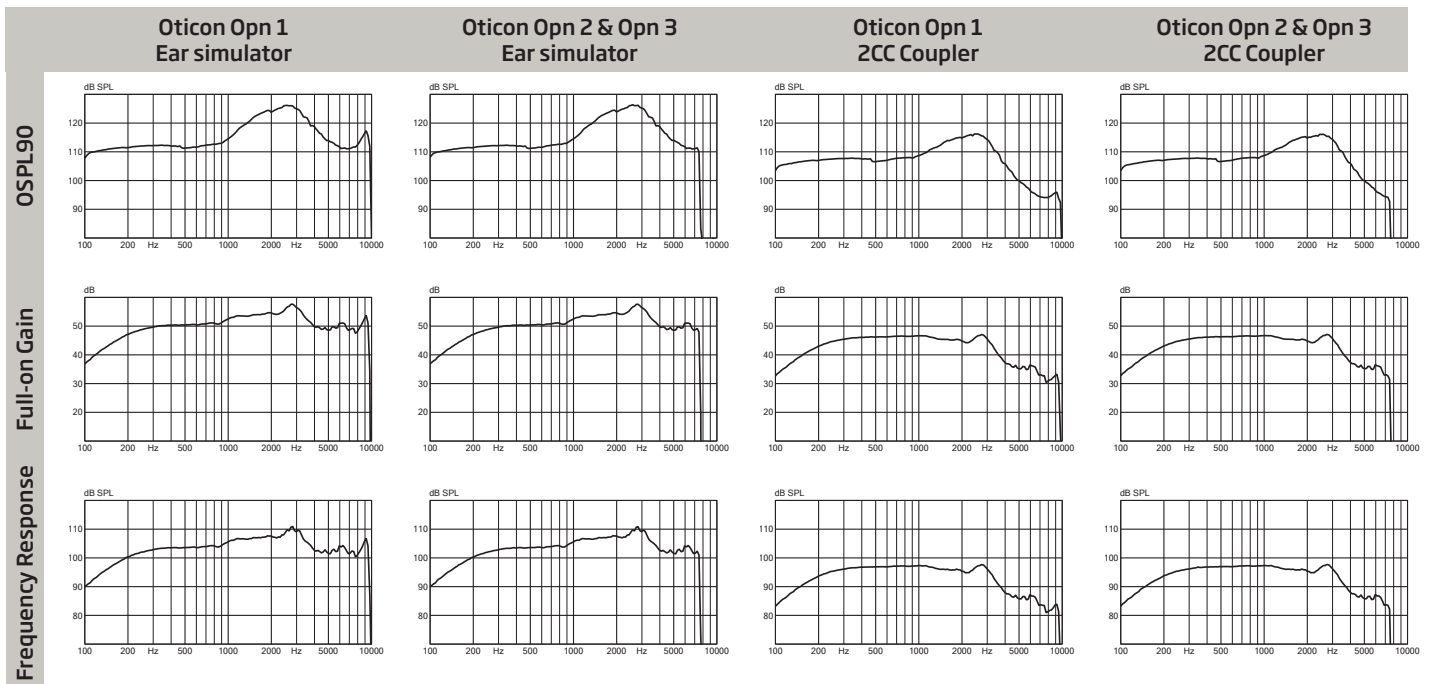
- Digital Programmable
- Automatic Volume Control
- Maximum Output Control System
- MPO- Maximum Power Output
- GC-Gain Control
- AGC-Automatic Gain Control
- Noise Reduction
- Feedback Management
- Single Microphone

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			ZCC Coupler ANSI S3.22-2014, IEC 60118-0:2015 and IEC 60318-5:2006		
Oticon Opn IIC 85		Opn 1	Opn 2	Opn 3	Opn 1	Opn 2	Opn 3
Frequency range Hz		100-9500	100-7500	100-7500	100-9200	100-7500	100-7500
MPO-OSPL90	Peak	126 dB SPL			116 dB SPL		
	1600 Hz	123 dB SPL			114 dB SPL		
	HFA-OSPL90	121 dB SPL			113 dB SPL		
Full-on gain*	Peak	58 dB			47 dB		
	1600 Hz	54 dB			45 dB		
	HFA-FOG	54 dB			46 dB		
Reference test gain		47 dB			37 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	2 %			< 2 %		
Equivalent input noise level		18 dB SPL			18 dB SPL		
Battery consumption**	Typical	1.1 mA			1.4 mA		
	Quiescent	1.0 mA			1.0 mA		
Battery life, calculated, hours***		90			70		
IRIL (IEC 60118-13:2016)		700/1400/2000 MHz: 19/11/10 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

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