

## Technical data sheet

## miniRITE T

60 85 100 105



	Real 1	Real 2	Real 3
MoreSound Intelligence™ 2.0	Level 1	Level 2	Level 3
- Environment configuration	5 options	5 options	3 options
- Virtual Outer Ear	3 configurations	1 configuration	1 configuration
- Spatial Balancer	100%	60%	60%
- Neural Noise Suppression, Difficult / Easy	10 dB / 4 dB	6 dB / 2 dB	6 dB / 0 dB
- Sound Enhancer	3 configurations	2 configurations	1 configuration
- Wind & Handling Stabilizer	•	•	•
MoreSound Amplifier™ 2.0	•	•	•
- SuddenSound Stabilizer	6 configurations MoreSound Optimizer™ & Feedback shield	5 configurations MoreSound Optimizer™ & Feedback shield	4 configurations MoreSound Optimizer™ & Feedback shield
Feedback Prevention	4 Estimators	2 Estimators	2 Estimators
Spatial Sound™			
Soft Speech Booster	•	•	•
Frequency lowering	Speech Rescue™	Speech Rescue™	Speech Rescue™
Sound quality			
Clear Dynamics	•	•	-
Better-Ear Priority	•	•	-
Fitting Bandwidth <sup>1</sup>	10 kHz	8 kHz	8 kHz
Bass Boost (streaming)	•	•	•
Processing Channels	64	48	48
Personalisation & Optimising fitting			
Fitting Bands	24	20	18
Multiple Directionality options	•	•	•
Adaptation Management	•	•	•
Connecting to the world			
Fitting Formulas	VAC+, NAL-NL1/ NAL-NL2, DSL v5	VAC+, NAL-NL1/ NAL-NL2, DSL v5	VAC+, NAL-NL1/ NAL-NL2, DSL v5
Oticon Companion app	•	•	•
Hands-free communication <sup>2</sup>	•	•	•
Direct streaming <sup>3</sup>	•	•	•
ConnectClip	•	•	•
EduMic	•	•	•
Remote Control 3.0	•	•	•
TV Adapter 3.0	•	•	•
Phone Adapter 2.0	•	•	•
Tinnitus SoundSupport™	•	•	•
CROS/BiCROS support	•	•	•

1) Bandwidth accessible for gain adjustments during fitting

2) Hands-free communication is available with iPhone 11 or later running iOS 15.2 or later, and iPad running iPadOS 15.2 or later

3) From iPhone, iPad, iPod touch, and selected Android devices with the Audio Streaming for Hearing Aids (ASHA) protocol

## Operating Conditions

Temperature: +1°C to +40°C (34°F to 104°F)  
 Humidity: 5% to 93% relative humidity, non-condensing  
 Atmospheric pressure: 700 hPa to 1060 hPa

## Storage and transportation conditions

Temperature and humidity shall not exceed the below limits for extended periods during transportation and storage.

## Transportation

Temperature: -25°C to +60°C (-13°F to 140°F)  
 Humidity: 5% to 93% relative humidity, non-condensing  
 Atmospheric pressure: 700 hPa to 1060 hPa

## Storage

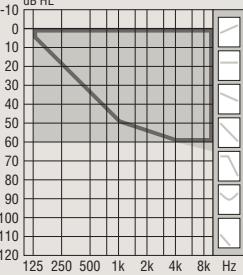
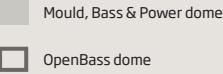
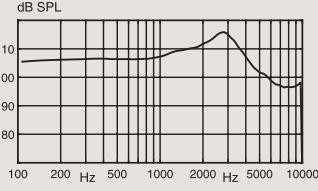
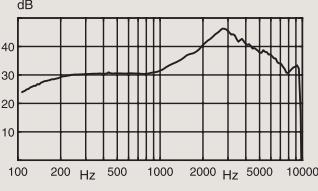
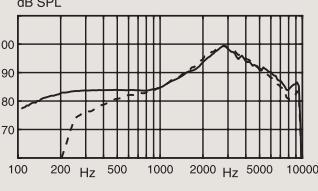
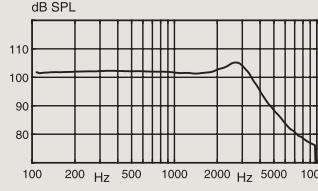
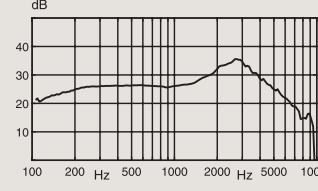
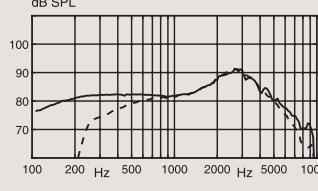
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 Atmospheric pressure: 700 hPa to 1060 hPa

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 life-changing technology

# Oticon Real 1

# miniRITE T 60

		Ear Simulator Measured according to IEC 60118-0:1983/AMD1:1994, IEC 60118-0:2015, IEC 60118-1:1995+AMD1:1998 CSV and IEC 60318-4:2010	2CC Coupler Measured according to ANSI S3.22-2014, IEC 60118-0:2015 and IEC 60318-5:2006
 <span style="border: 1px solid green; padding: 2px;">60</span>   <p><b>Technical information</b> Omnidirectional mode is used unless otherwise stated.</p>	<b>OSPL90</b>  <b>Full-on Gain</b>  <b>Frequency Response</b> 	<b>OSPL90</b>  <b>Full-on Gain</b>  <b>Frequency Response</b> 	
<b>OSPL90</b> Peak (dB SPL) 116 1600 Hz (dB SPL) 110 HFA-OSPL90 (dB SPL) 111	105 102 103		
<b>Full-on gain<sup>1</sup></b> Peak (dB) 46 1600 Hz (dB) 37 HFA-FOG (dB) 38	36 29 30		
<b>Reference test gain (dB)</b> 30	26		
<b>Frequency range (Hz)</b> 100-9600	100-9400		
<b>Telecoil output</b> 1 mA/m field (1600 Hz) (dB SPL) 68 10 mA/m field (1600 Hz) (dB SPL) 88 HFA SPLITS L/R (dB SPL) -	-	85/85	
<b>Total harmonic distortion (Input 70 dB SPL)</b> 500 Hz (%) <2 800 Hz (%) <3 1600 Hz (%) <2	<2 <2 <2	<2 <2 <2	
<b>Equivalent input noise level</b> Omni (dB SPL) 18 Dir (dB SPL) 26	16 27		
<b>Battery consumption<sup>2</sup></b> Typical (mA) 2.3 Quiescent (mA) 2.2	2.2	2.2	
<b>Battery life, artificial measurement, hours<sup>3</sup></b> 80	80		
<b>Expected battery life, hours (battery size 312 - IEC PR41)<sup>4</sup></b> 55-60			

1) Measured with the gain control of the hearing aids set to their 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 60118-0:1983+A1:1994 but without influence of feedback.

2) 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.

3) 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.

4) 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).

# Oticon Real 2 & 3

# miniRITE T 60

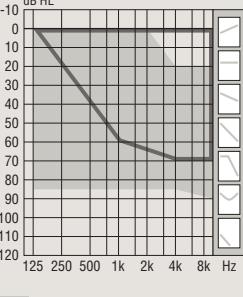
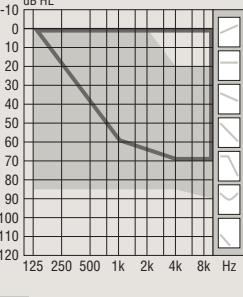
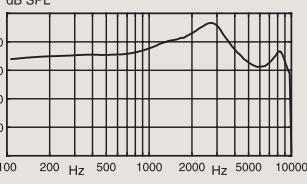
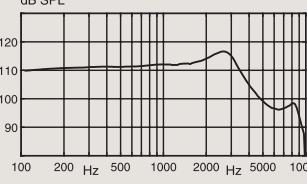
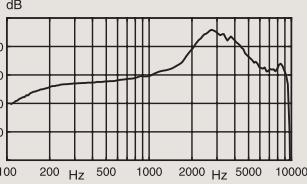
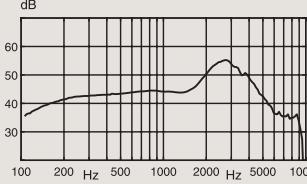
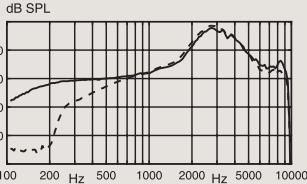
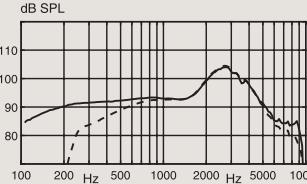
		Ear Simulator Measured according to IEC 60118-0:1983/AMD1:1994, IEC 60118-0:2015, IEC 60118-1:1995+AMD1:1998 CSV and IEC 60318-4:2010	2CC Coupler Measured according to ANSI S3.22-2014, IEC 60118-0:2015 and IEC 60318-5:2006
 <b>60</b>		<b>OSPL90</b> 	<b>OSPL90</b> 
<b>Technical information</b> Omnidirectional mode is used unless otherwise stated.	<b>Full-on Gain</b> 	<b>Full-on Gain</b> 	
 — Acoustic input: 60 dB SPL - - - Magnetic input: 31.6 mA/m	<b>Frequency Response</b> 	<b>Frequency Response</b> 	
<b>OSPL90</b> Peak (dB SPL) 1600 Hz (dB SPL) HFA-OSPL90 (dB SPL)	116 110 111	105 102 103	
<b>Full-on gain<sup>1</sup></b> Peak (dB) 1600 Hz (dB) HFA-FOG (dB)	46 37 38	36 29 30	
<b>Reference test gain (dB)</b>	30	26	
<b>Frequency range (Hz)</b>	100-7500	100-7500	
<b>Telecoil output</b> 1 mA/m field (1600 Hz) (dB SPL) 10 mA/m field (1600 Hz) (dB SPL) HFA SPLITS L/R (dB SPL)	68 88 -	- - 85/85	
<b>Total harmonic distortion (Input 70 dB SPL)</b> 500 Hz (%) 800 Hz (%) 1600 Hz (%)	<2 <3 <2	<2 <2 <2	
<b>Equivalent input noise level</b> Omni (dB SPL) Dir (dB SPL)	18 26	16 27	
<b>Battery consumption<sup>2</sup></b> Typical (mA) Quiescent (mA)	2.2 2.2	2.2 2.2	
<b>Battery life, artificial measurement, hours<sup>3</sup></b>	80	80	
<b>Expected battery life, hours (battery size 312 - IEC PR41)<sup>4</sup></b>	55-60		

1) Measured with the gain control of the hearing aids set to their 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 60118-0:1983+A1:1994 but without influence of feedback.

2) 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.

3) 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.

4) 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).

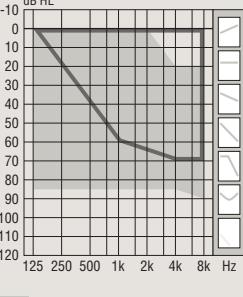
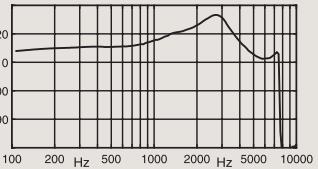
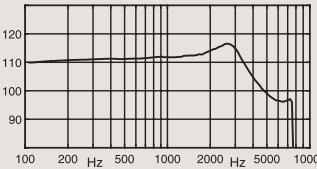
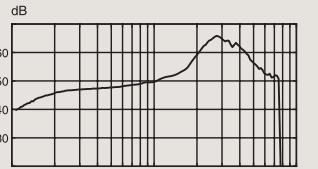
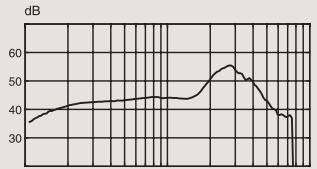
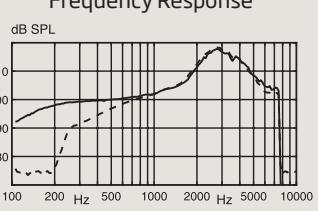
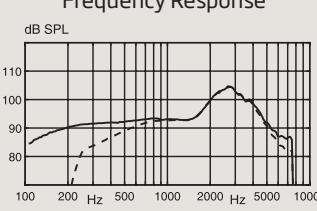
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	 <b>85</b>	
	<b>OSPL90</b> 	<b>OSPL90</b> 
	<b>Full-on Gain</b> 	<b>Full-on Gain</b> 
	<b>Frequency Response</b> 	<b>Frequency Response</b> 
<b>OSPL90</b>	Peak (dB SPL) 1600 Hz (dB SPL) HFA-OSPL90 (dB SPL)	127 121 122
<b>Full-on gain<sup>1</sup></b>	Peak (dB) 1600 Hz (dB) HFA-FOG (dB)	66 53 56
Reference test gain (dB)		46
Frequency range (Hz)		100-9500
Telecoil output	1 mA/m field (1600 Hz) (dB SPL) 10 mA/m field (1600 Hz) (dB SPL) HFA SPLITS L/R (dB SPL)	84 104 -
Total harmonic distortion (Input 70 dB SPL)	500 Hz (%) 800 Hz (%) 1600 Hz (%)	<2 <4 <5
Equivalent input noise level	Omni (dB SPL) Dir (dB SPL)	21 29
Battery consumption <sup>2</sup>	Typical (mA) Quiescent (mA)	2.4 2.2
Battery life, artificial measurement, hours <sup>3</sup>		75
Expected battery life, hours (battery size 312 - IEC PR41) <sup>4</sup>		50-60

1) Measured with the gain control of the hearing aids set to their 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 60118-0:1983+A1:1994 but without influence of feedback.

2) 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.

3) 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.

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		OSPL90	OSPL90
			
			
<b>Technical information</b> Omnidirectional mode is used unless otherwise stated.			
	— Acoustic input: 60 dB SPL - - - Magnetic input: 31.6 mA/m		
OSPL90	Peak (dB SPL) 1600 Hz (dB SPL) HFA-OSPL90 (dB SPL)	127 121 122	117 113 114
Full-on gain <sup>1</sup>	Peak (dB) 1600 Hz (dB) HFA-FOG (dB)	66 53 56	55 45 48
Reference test gain (dB)		46	37
Frequency range (Hz)		100-7500	100-7500
Telecoil output	1 mA/m field (1600 Hz) (dB SPL) 10 mA/m field (1600 Hz) (dB SPL) HFA SPLITS L/R (dB SPL)	84 104 -	- - 96/96
Total harmonic distortion (Input 70 dB SPL)	500 Hz (%) 800 Hz (%) 1600 Hz (%)	<2 <4 <5	<2 <2 <2
Equivalent input noise level	Omni (dB SPL) Dir (dB SPL)	21 28	17 27
Battery consumption <sup>2</sup>	Typical (mA) Quiescent (mA)	2.3 2.2	2.4 2.2
Battery life, artificial measurement, hours <sup>3</sup>		75	75
Expected battery life, hours (battery size 312 - IEC PR41) <sup>4</sup>		50-60	

1) Measured with the gain control of the hearing aids set to their 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 60118-0:1983+A1:1994 but without influence of feedback.

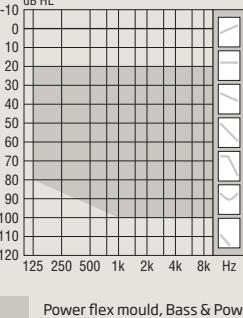
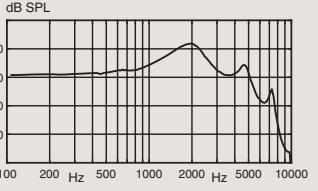
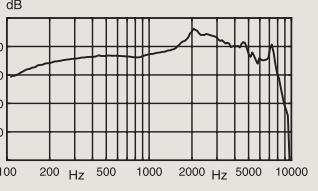
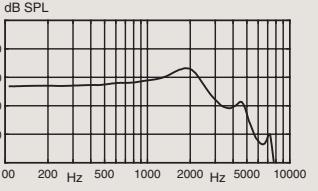
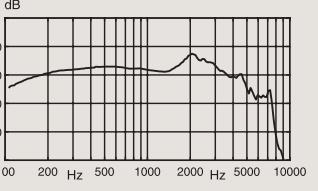
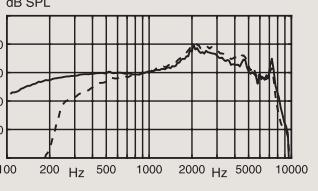
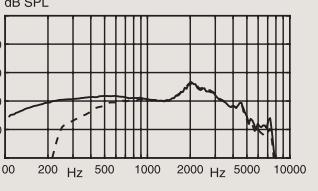
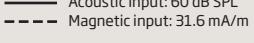
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3) Based on the standardised battery consumption measurement (IEC 60118-0:1983/AMD1:1994). The actual battery life depends on battery quality, use pattern, active feature set, hearing loss and sound environment.

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# Oticon Real 1

# miniRITE T 100

	<b>Ear Simulator</b> Measured according to IEC 60118-0:1983/AMD1:1994, IEC 60118-0:2015, IEC 60118-1:1995+AMD1:1998 CSV and IEC 60318-4:2010	<b>2CC Coupler</b> Measured according to ANSI S3.22-2014, IEC 60118-0:2015 and IEC 60318-5:2006
	 <b>OSPL90</b>  <b>Full-on Gain</b>	 <b>OSPL90</b>  <b>Full-on Gain</b>
<b>Technical information</b> Omnidirectional mode is used unless otherwise stated.	 <b>Frequency Response</b>	 <b>Frequency Response</b>
		
OSPL90	Peak (dB SPL) 1600 Hz (dB SPL) HFA-OSPL90 (dB SPL)	132 130 127
Full-on gain <sup>1</sup>	Peak (dB) 1600 Hz (dB) HFA-FOG (dB)	66 60 61
Reference test gain (dB)		53
Frequency range (Hz)		100-8900
Telecoil output	1 mA/m field (1600 Hz) (dB SPL) 10 mA/m field (1600 Hz) (dB SPL) HFA SPLITS L/R (dB SPL)	91 111 -
Total harmonic distortion (Input 70 dB SPL)	500 Hz (%) 800 Hz (%) 1600 Hz (%)	<9 <6 <3
Equivalent input noise level	Omni (dB SPL) Dir (dB SPL)	17 25
Battery consumption <sup>2</sup>	Typical (mA) Quiescent (mA)	2.2 2.2
Battery life, artificial measurement, hours <sup>3</sup>		80
Expected battery life, hours (battery size 312 - IEC PR41) <sup>4</sup>		50-60

1) Measured with the gain control of the hearing aids set to their 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 60118-0:1983+A1:1994 but without influence of feedback.

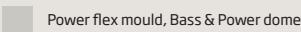
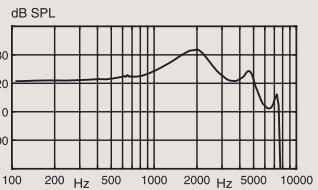
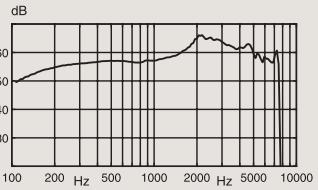
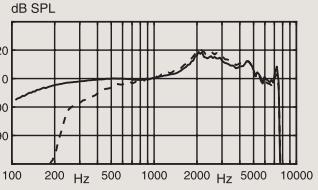
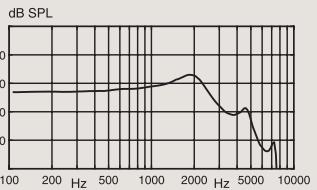
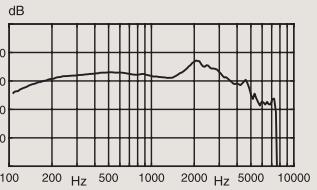
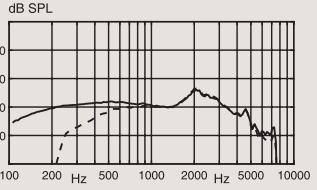
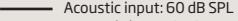
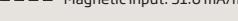
2) Battery current is measured according to IEC 60118-0:1983/AMD1:1994 §7.11, IEC 60118-0:2015 §7.7 and ANSI S3.22:2014 §6.13 after a settling time of minimum 3 minutes.

3) 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.

4) 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).

# Oticon Real 2 & 3

# miniRITE T 100

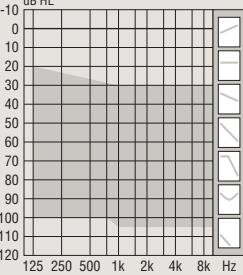
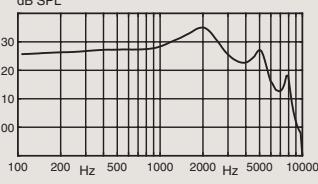
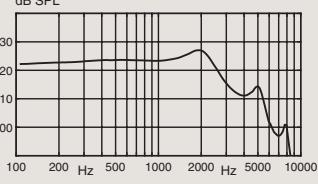
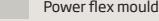
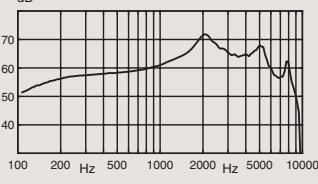
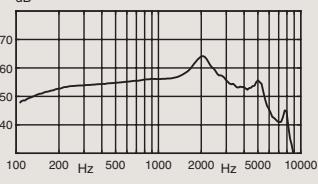
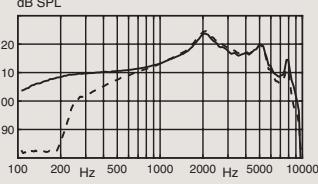
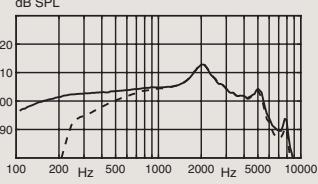
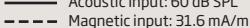
	<b>Ear Simulator</b> Measured according to IEC 60118-0:1983/AMD1:1994, IEC 60118-0:2015, IEC 60118-1:1995+AMD1:1998 CSV and IEC 60318-4:2010	<b>2CC Coupler</b> Measured according to ANSI S3.22-2014, IEC 60118-0:2015 and IEC 60318-5:2006
  	 <b>OSPL90</b>  <b>Full-on Gain</b>  <b>Frequency Response</b>	 <b>OSPL90</b>  <b>Full-on Gain</b>  <b>Frequency Response</b>
	 	
OSPL90	Peak (dB SPL) 1600 Hz (dB SPL) HFA-OSPL90 (dB SPL)	132 130 127
Full-on gain <sup>1</sup>	Peak (dB) 1600 Hz (dB) HFA-FOG (dB)	66 60 61
Reference test gain (dB)		53
Frequency range (Hz)		100-7500
Telecoil output	1 mA/m field (1600 Hz) (dB SPL) 10 mA/m field (1600 Hz) (dB SPL) HFA SPLITS L/R (dB SPL)	91 111 -
Total harmonic distortion (Input 70 dB SPL)	500 Hz (%) 800 Hz (%) 1600 Hz (%)	<9 <6 <3
Equivalent input noise level	Omni (dB SPL) Dir (dB SPL)	16 25
Battery consumption <sup>2</sup>	Typical (mA) Quiescent (mA)	2.2 2.2
Battery life, artificial measurement, hours <sup>3</sup>		80
Expected battery life, hours (battery size 312 - IEC PR41) <sup>4</sup>		50-60

1) Measured with the gain control of the hearing aids set to their 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 60118-0:1983+A1:1994 but without influence of feedback.

2) 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.

3) 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.

4) 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).

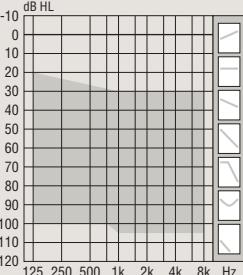
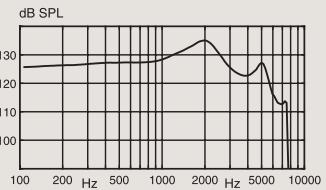
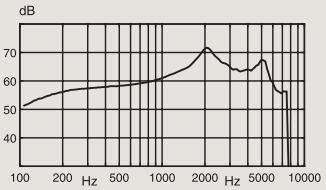
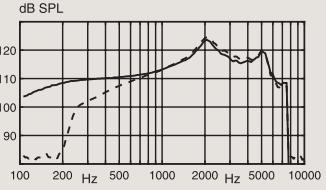
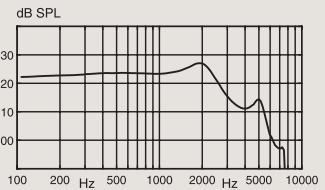
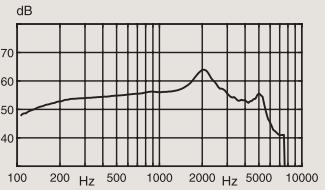
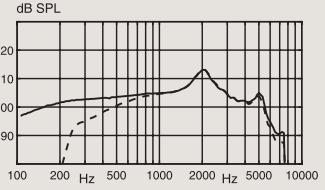
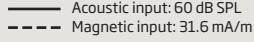
		<b>Ear Simulator</b> Measured according to IEC 60118-0:1983/AMD1:1994, IEC 60118-0:2015, IEC 60118-1:1995+AMD1:1998 CSV and IEC 60318-4:2010	<b>2CC Coupler</b> Measured according to ANSI S3.22-2014, IEC 60118-0:2015 and IEC 60318-5:2006
		<b>OSPL90</b> 	<b>OSPL90</b> 
		<b>Full-on Gain</b> 	<b>Full-on Gain</b> 
<b>Technical information</b> Omnidirectional mode is used unless otherwise stated.		<b>Frequency Response</b> 	<b>Frequency Response</b> 
<b>Warning to the hearing aid dispenser</b> The maximum output capability of the hearing aid may exceed 132 dB SPL (IEC 711). Special care should be exercised in selecting and fitting the hearing aid, as there may be risk of impairing the remaining hearing of the hearing aid user.			
OSPL90	Peak (dB SPL)	135	127
	1600 Hz (dB SPL)	133	126
	HFA-OSPL90 (dB SPL)	131	123
Full-on gain <sup>1</sup>	Peak (dB)	72	64
	1600 Hz (dB)	66	59
	HFA-FOG (dB)	65	58
Reference test gain (dB)		58	47
Frequency range (Hz)		100-9100	100-7900
Telecoil output	1 mA/m field (1600 Hz) (dB SPL)	96	-
	10 mA/m field (1600 Hz) (dB SPL)	116	-
	HFA SPLITS L/R (dB SPL)	-	106/106
Total harmonic distortion (Input 70 dB SPL)	500 Hz (%)	<4	<2
	800 Hz (%)	<4	<2
	1600 Hz (%)	<4	<2
Equivalent input noise level	Omni (dB SPL)	15	16
	Dir (dB SPL)	24	27
Battery consumption <sup>2</sup>	Typical (mA)	2.3	2.4
	Quiescent (mA)	2.2	2.2
Battery life, artificial measurement, hours <sup>3</sup>		80	75
Expected battery life, hours (battery size 312 - IEC PR41) <sup>4</sup>		50-60	

1) Measured with the gain control of the hearing aids set to their 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 60118-0:1983+A1:1994 but without influence of feedback.

2) 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.

3) 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.

4) 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).

	<b>Ear Simulator</b> Measured according to IEC 60118-0:1983/AMD1:1994, IEC 60118-0:2015, IEC 60118-1:1995+AMD1:1998 CSV and IEC 60318-4:2010	<b>2CC Coupler</b> Measured according to ANSI S3.22-2014, IEC 60118-0:2015 and IEC 60318-5:2006
	<b>OSPL90</b>  <b>Full-on Gain</b>  <b>Frequency Response</b> 	<b>OSPL90</b>  <b>Full-on Gain</b>  <b>Frequency Response</b> 
<b>Technical information</b> Omnidirectional mode is used unless otherwise stated.		
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<b>OSPL90</b>	Peak (dB SPL) 1600 Hz (dB SPL) HFA-OSPL90 (dB SPL)	135 133 131
<b>Full-on gain<sup>1</sup></b>	Peak (dB) 1600 Hz (dB) HFA-FOG (dB)	72 66 65
Reference test gain (dB)		58
Frequency range (Hz)		100-7500
Telecoil output	1 mA/m field (1600 Hz) (dB SPL) 10 mA/m field (1600 Hz) (dB SPL) HFA SPLITS L/R (dB SPL)	96 116 -
Total harmonic distortion (Input 70 dB SPL)	500 Hz (%) 800 Hz (%) 1600 Hz (%)	<4 <4 <4
Equivalent input noise level	Omni (dB SPL) Dir (dB SPL)	15 24
Battery consumption <sup>2</sup>	Typical (mA) Quiescent (mA)	2.3 2.2
Battery life, artificial measurement, hours <sup>3</sup>		80
Expected battery life, hours (battery size 312 - IEC PR41) <sup>4</sup>		50-60

1) Measured with the gain control of the hearing aids set to their 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 60118-0:1983+A1:1994 but without influence of feedback.

2) 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.

3) 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.

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## Notes

## Notes

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