

# OTICON | Real

## Technical data sheet

### miniRITE R

60 85 100 105



|                         | Real 1                                       | Real 2                                 | Real 3                                 |  |    |
|-------------------------|--|--|--|--|----|
| Speech Understanding    | 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                       | 5 Configurations                       | 4 Configurations                       |    |
|                         | Feedback Prevention                          | MoreSound Optimizer™ & Feedback shield | MoreSound Optimizer™ & Feedback shield | MoreSound Optimizer™ & Feedback shield |    |
| Sound Quality           | Spatial Sound™                               | 4 Estimators                           | 2 Estimators                           | 2 Estimators                           |    |
|                         | Soft Speech Booster                          | •                                      | •                                      | •                                      |    |
|                         | Frequency lowering                           | Speech Rescue™                         | Speech Rescue™                         | Speech Rescue™                         |    |
|                         | Clear Dynamics                               | •                                      | •                                      | -                                      |    |
|                         | Better-Ear Priority                          | •                                      | •                                      | -                                      |    |
|                         | Fitting Bandwidth <sup>1</sup>               | 10 kHz                                 | 8 kHz                                  | 8 kHz                                  |    |
|                         | Bass Boost (streaming)                       | •                                      | •                                      | •                                      |    |
|                         | Processing Channels                          | 64                                     | 48                                     | 48                                     |    |
|                         | Personalization & Optimizing Fitting         | Fitting Bands                          | 24                                     | 20                                     | 18 |
|                         |  | Multiple Directionality options        | •                                      | •                                      | •  |
| Adaptation Management   |  | •                                      | •                                      | •                                      |    |
| Fitting Formulas        |  | VAC+, NAL-NL1/<br>NAL-NL2, DSL v5      | VAC+, NAL-NL1/<br>NAL-NL2, DSL v5      | VAC+, NAL-NL1/<br>NAL-NL2, DSL v5      |    |
| Connecting to the world |  | 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 select iPhone, iPad, iPod touch, and select Android devices with the Audio Streaming for Hearing Aids (ASHA) protocol

**Operating and charging conditions**  
 Temperature: +5°C to +40°C (41°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.

**Transport**  
 Temperature: -20°C to +60°C (-4°F to 140°F)  
 Humidity: 5% to 93% relative humidity, non-condensing  
 Atmospheric pressure: 700 hPa to 1060 hPa

**Storage**  
 Temperature: -20°C to +30°C (-4°F to 86°F)  
 Humidity: 5% to 93% relative humidity, non-condensing  
 Atmospheric pressure: 700 hPa to 1060 hPa

Apple, the Apple logo, iPhone®, iPad®, and iPod touch® are trademarks of Apple Inc., registered in the U.S. and other countries.

Oticon Real™ miniRITE R offers a discreet design. It is powered by a rechargeable lithium-ion battery and features telecoil and a double push-button. Based on Bluetooth® Low Energy technology, it is a Made for iPhone® hearing aid and supports hands-free communication and direct streaming for iPhone®, iPad®, iPod touch® and select Android™ devices.

MoreSound Intelligence™ creates a more precise and natural representation of individual sounds with clearer and more distinct contrasts.

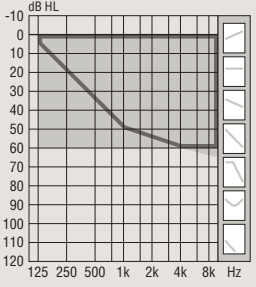

Oticon Real is built on the Polaris R™ platform, which utilizes faster detectors for powering new innovations used to optimize the audibility of the environmental sounds in the sound scene.

WARNING: No modification of this equipment is allowed.



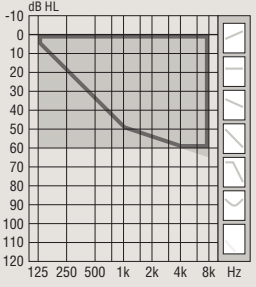

For information on compatibility, please visit [www.oticon.com/support/compatibility](http://www.oticon.com/support/compatibility)



|  |                                  | <b>Ear Simulator</b><br>Measured according to<br>IEC 60118-0:1983/AMD1:1994, IEC 60118-0:2015,<br>IEC 60118-1:1995+AMD1:1998 CSV<br>and IEC 60318-4:2010 | <b>2CC Coupler</b><br>Measured according to<br>ANSI S3.22-2014, IEC 60118-0:2015<br>and IEC 60318-5:2006 |
|--|----------------------------------|--|--|
|  <p>60</p>  <p> <input checked="" type="checkbox"/> Mold, Bass &amp; Power dome<br/> <input type="checkbox"/> OpenBass dome         </p> <p><b>Technical information</b><br/>Omnidirectional mode is used unless otherwise stated.</p> <p>           — Acoustic input: 60 dB SPL<br/>           - - - Magnetic input: 31.6 mA/m         </p> |                                  | <b>OSPL90</b>  | <b>OSPL90</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>Peak (dB SPL)</b>             | 116  | 106  |
| OSPL90   | 1600 Hz (dB SPL)                 | 110  | 102  |
|  | HFA-OSPL90 (dB SPL)              | 110  | 103  |
| Full-on Gain <sup>1</sup>  | Peak (dB)                        | 46   | 36   |
|  | 1600 Hz (dB)                     | 37   | 29   |
|  | HFA-FOG (dB)                     | 38   | 30   |
| Reference test gain (dB)   |                                  | 31   | 26   |
| Frequency range (Hz)   |                                  | 100-9600   | 100-9400   |
|  | 1 mA/m field (1600 Hz) (dB SPL)  | 68   |  |
| Telecoil output  | 10 mA/m field (1600 Hz) (dB SPL) | 88   |  |
|  | HFA-SPLITS L/R (dB SPL)          |  | 83/83  |
| Total harmonic distortion<br>(Input 70 dB SPL)   | 500 Hz (%)                       | <2   | <2   |
|  | 800 Hz (%)                       | <3   | <2   |
|  | 1600 Hz (%)                      | <2   | <2   |
| Equivalent input noise level   | Omni (dB SPL)                    | 18   | 17   |
|  | Dir (dB SPL)                     | 26   | 28   |
| Battery  |                                  | Lithium-ion  | Lithium-ion  |
| Expected operating time, hours <sup>2</sup>  |                                  | 24   |  |

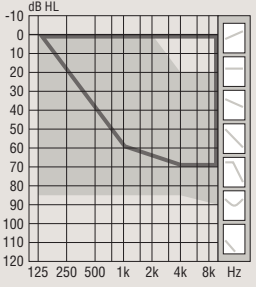

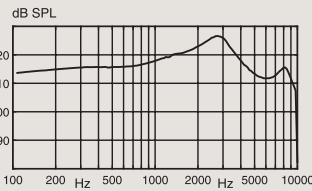
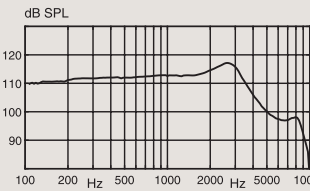
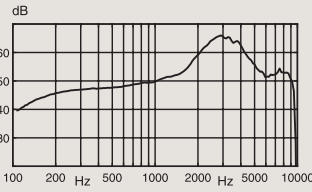
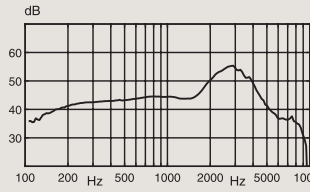
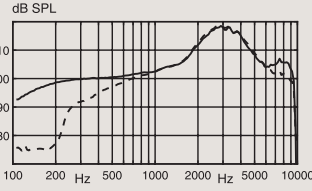
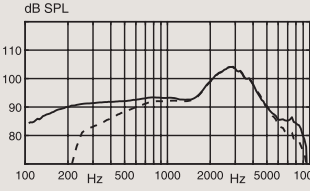
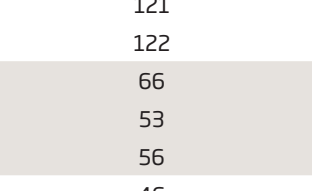
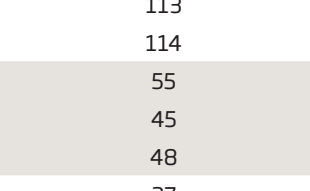
1) Measured with the gain control of the hearing aids set to their full-on position minus 20 dB and with an input SPL of 70 dB. This is to obtain a gain response equal to the full-on gain response from e.g. IEC 60118-0:1983+A1:1994 but without influence of feedback.

2) Expected operating time for rechargeable battery depends on use pattern, active feature set, hearing loss, sound environment, battery age and use of wireless accessories.

|   |                                  | <b>Ear Simulator</b><br>Measured according to<br>IEC 60118-0:1983/AMD1:1994, IEC 60118-0:2015,<br>IEC 60118-1:1995+AMD1:1998 CSV<br>and IEC 60318-4:2010 | <b>2CC Coupler</b><br>Measured according to<br>ANSI S3.22-2014, IEC 60118-0:2015<br>and IEC 60318-5:2006 |
|---|----------------------------------|--|--|
|  <p>60</p>  <p>Legend:<br/> <input checked="" type="checkbox"/> Mold, Bass &amp; Power dome<br/> <input type="checkbox"/> OpenBass dome</p> <p><b>Technical information</b><br/>                     Omnidirectional mode is used unless otherwise stated.</p> <p>Legend:<br/>                     — Acoustic input: 60 dB SPL<br/>                     - - - Magnetic input: 31.6 mA/m</p> |                                  | <b>OSPL90</b>  | <b>OSPL90</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>  |
|   | Peak (dB SPL)                    | 116  | 106  |
| OSPL90  | 1600 Hz (dB SPL)                 | 110  | 102  |
|   | HFA-OSPL90 (dB SPL)              | 110  | 103  |
| Full-on Gain <sup>1</sup>   | Peak (dB)                        | 46   | 36   |
|   | 1600 Hz (dB)                     | 37   | 29   |
|   | HFA-FOG (dB)                     | 38   | 30   |
| Reference test gain (dB)  |                                  | 31   | 26   |
| Frequency range (Hz)  |                                  | 100-7500   | 100-7500   |
|   | 1 mA/m field (1600 Hz) (dB SPL)  | 68   |  |
| Telecoil output   | 10 mA/m field (1600 Hz) (dB SPL) | 88   |  |
|   | HFA-SPLITS L/R (dB SPL)          |  | 83/83  |
| Total harmonic distortion<br>(Input 70 dB SPL)  | 500 Hz (%)                       | <2   | <2   |
|   | 800 Hz (%)                       | <3   | <2   |
|   | 1600 Hz (%)                      | <2   | <2   |
| Equivalent input noise level  | Omni (dB SPL)                    | 19   | 17   |
|   | Dir (dB SPL)                     | 26   | 29   |
| Battery   |                                  | Lithium-ion  | Lithium-ion  |
| Expected operating time, hours <sup>2</sup>   |                                  | 24   |  |

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) Expected operating time for rechargeable battery depends on use pattern, active feature set, hearing loss, sound environment, battery age and use of wireless accessories.

|  |                                  | Ear Simulator<br>Measured according to<br>IEC 60118-0:1983/AMD1:1994, IEC 60118-0:2015,<br>IEC 60118-1:1995+AMD1:1998 CSV<br>and IEC 60318-4:2010  | 2CC Coupler<br>Measured according to<br>ANSI S3.22-2014, IEC 60118-0:2015<br>and IEC 60318-5:2006  |
|--|----------------------------------|--|--|
|  <p>85</p>  <p>Technical information<br/>Omnidirectional mode is used unless otherwise stated.</p> |                                  | <p>OSPL90</p>           | <p>OSPL90</p>                   |
|  |                                  | <p>Full-on Gain</p>   | <p>Frequency Response</p>   |
|  |                                  | <p>Acoustic input: 60 dB SPL<br/>Magnetic input: 31.6 mA/m</p>   |  |
|  | Peak (dB SPL)                    | 127  | 117  |
| OSPL90   | 1600 Hz (dB SPL)                 | 121  | 113  |
|  | HFA-OSPL90 (dB SPL)              | 122  | 114  |
|  | Peak (dB)                        | 66   | 55   |
| Full-on Gain <sup>1</sup>  | 1600 Hz (dB)                     | 53   | 45   |
|  | HFA-FOG (dB)                     | 56   | 48   |
| Reference test gain (dB)   |                                  | 46   | 37   |
| Frequency range (Hz)   |                                  | 100-9500   | 100-8900   |
|  | 1 mA/m field (1600 Hz) (dB SPL)  | 84   |  |
| Telecoil output  | 10 mA/m field (1600 Hz) (dB SPL) | 104  |  |
|  | HFA-SPLITS L/R (dB SPL)          |  | 94/94  |
| Total harmonic distortion<br>(Input 70 dB SPL)   | 500 Hz (%)                       | <2   | <2   |
|  | 800 Hz (%)                       | <4   | <2   |
|  | 1600 Hz (%)                      | <5   | <2   |
| Equivalent input noise level   | Omni (dB SPL)                    | 21   | 18   |
|  | Dir (dB SPL)                     | 29   | 28   |
| Battery  |                                  | Lithium-ion  | Lithium-ion  |
| Expected operating time, hours <sup>2</sup>  |                                  | 24   |  |

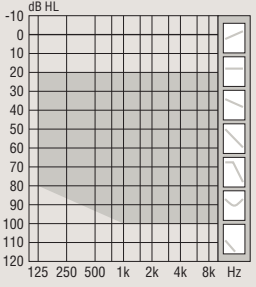
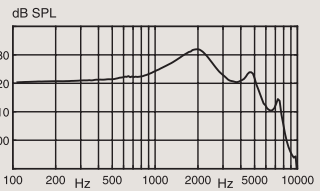
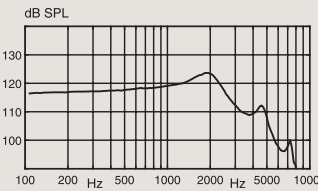
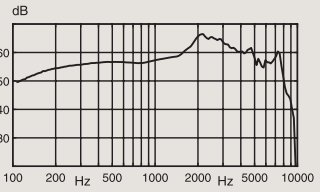
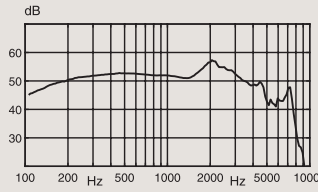
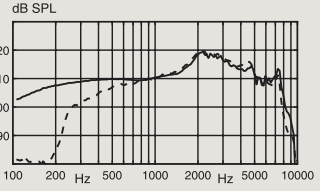
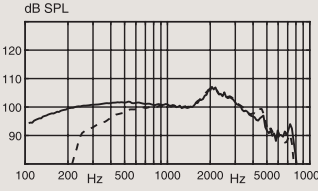
1) Measured with the gain control of the hearing aids set to their full-on position minus 20 dB and with an input SPL of 70 dB. This is to obtain a gain response equal to the full-on gain response from e.g. IEC 60118-0:1983+AMD1:1994 but without influence of feedback.

2) Expected operating time for rechargeable battery depends on use pattern, active feature set, hearing loss, sound environment, battery age and use of wireless accessories.

|   |                                  | Ear Simulator<br>Measured according to<br>IEC 60118-0:1983/AMD1:1994, IEC 60118-0:2015,<br>IEC 60118-1:1995+AMD1:1998 CSV<br>and IEC 60318-4:2010 | 2CC Coupler<br>Measured according to<br>ANSI S3.22-2014, IEC 60118-0:2015<br>and IEC 60318-5:2006 |
|---|----------------------------------|---|---|
| <p><b>85</b></p> <p>Technical information<br/>Omnidirectional mode is used unless otherwise stated.</p> |                                  | <p><b>OSPL90</b></p>  | <p><b>OSPL90</b></p>  |
|   |                                  | <p><b>Full-on Gain</b></p>  | <p><b>Full-on Gain</b></p>  |
|   |                                  | <p><b>Frequency Response</b></p>  | <p><b>Frequency Response</b></p>  |
|   |                                  | <p>— Acoustic input: 60 dB SPL<br/>- - - Magnetic input: 31.6 mA/m</p>  |   |
|   | Peak (dB SPL)                    | 127   | 117   |
| OSPL90  | 1600 Hz (dB SPL)                 | 121   | 113   |
|   | HFA-OSPL90 (dB SPL)              | 122   | 114   |
| Full-on Gain <sup>1</sup>   | Peak (dB)                        | 66  | 55  |
|   | 1600 Hz (dB)                     | 53  | 45  |
|   | HFA-FOG (dB)                     | 56  | 48  |
| Reference test gain (dB)  |                                  | 46  | 37  |
| Frequency range (Hz)  |                                  | 100-7500  | 100-7500  |
| Telecoil output   | 1 mA/m field (1600 Hz) (dB SPL)  | 84  |   |
|   | 10 mA/m field (1600 Hz) (dB SPL) | 104   |   |
|   | HFA-SPLITS L/R (dB SPL)          |   | 94/94   |
| Total harmonic distortion<br>(Input 70 dB SPL)  | 500 Hz (%)                       | <2  | <2  |
|   | 800 Hz (%)                       | <4  | <2  |
|   | 1600 Hz (%)                      | <5  | <2  |
| Equivalent input noise level  | Omni (dB SPL)                    | 22  | 18  |
|   | Dir (dB SPL)                     | 29  | 27  |
| Battery   |                                  | Lithium-ion   | Lithium-ion   |
| Expected operating time, hours <sup>2</sup>   |                                  | 24  |   |

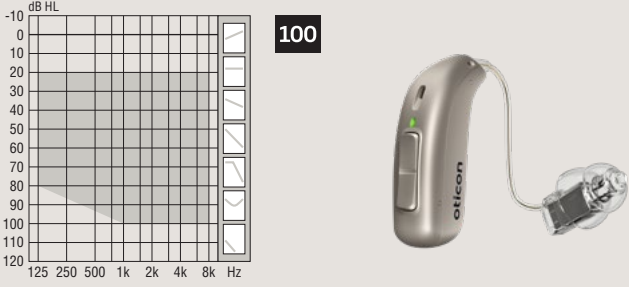
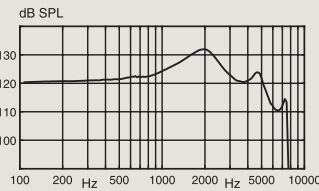
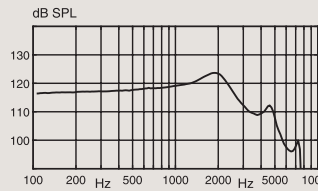
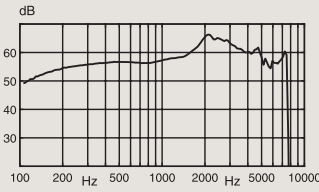
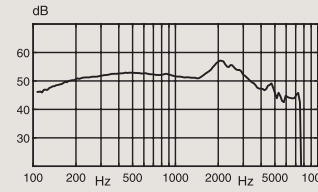
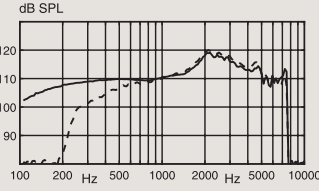
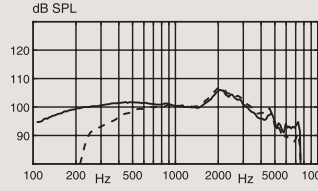
1) Measured with the gain control of the hearing aids set to their full-on position minus 20 dB and with an input SPL of 70 dB. This is to obtain a gain response equal to the full-on gain response from e.g. IEC 60118-0:1983+A1:1994 but without influence of feedback.

2) Expected operating time for rechargeable battery depends on use pattern, active feature set, hearing loss, sound environment, battery age and use of wireless accessories.

|   |   | <b>Ear Simulator</b><br>Measured according to<br>IEC 60118-0:1983/AMD1:1994, IEC 60118-0:2015,<br>IEC 60118-1:1995+AMD1:1998 CSV<br>and IEC 60318-4:2010 | <b>2CC Coupler</b><br>Measured according to<br>ANSI S3.22-2014, IEC 60118-0:2015<br>and IEC 60318-5:2006              |
|---|---|--|---|
|  <p>Power receiver mold, Bass &amp; Power dome</p> | <p><b>Technical information</b><br/>Omnidirectional mode is used unless otherwise stated.</p> <p><b>Warning to the hearing aid dispenser</b><br/>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.</p> <p>— Acoustic input: 60 dB SPL<br/>- - - Magnetic input: 31.6 mA/m</p> | <p><b>OSPL90</b></p>   | <p><b>OSPL90</b></p>               |
|   |   | <p><b>Full-on Gain</b></p>   | <p><b>Full-on Gain</b></p>         |
|   |   | <p><b>Frequency Response</b></p>                                      | <p><b>Frequency Response</b></p>  |
|   | Peak (dB SPL)   | 132  | 124   |
| OSPL90  | 1600 Hz (dB SPL)  | 130  | 122   |
|   | HFA-OSPL90 (dB SPL)   | 127  | 120   |
| Full-on Gain <sup>1</sup>   | Peak (dB)   | 66   | 57  |
|   | 1600 Hz (dB)  | 60   | 52  |
|   | HFA-FOG (dB)  | 61   | 53  |
| Reference test gain (dB)  |   | 53   | 42  |
| Frequency range (Hz)  |   | 100-8900   | 100-7500  |
| Telecoil output   | 1 mA/m field (1600 Hz) (dB SPL)   | 91   |   |
|   | 10 mA/m field (1600 Hz) (dB SPL)  | 111  |   |
|   | HFA-SPLITS L/R (dB SPL)   |  | 100/100   |
| Total harmonic distortion<br>(Input 70 dB SPL)  | 500 Hz (%)  | <9   | <2  |
|   | 800 Hz (%)  | <6   | <2  |
|   | 1600 Hz (%)   | <3   | <2  |
| Equivalent input noise level  | Omni (dB SPL)   | 17   | 16  |
|   | Dir (dB SPL)  | 26   | 28  |
| Battery   |   | Lithium-ion  | Lithium-ion   |
| Expected operating time, hours <sup>2</sup>   |   | 24   |   |

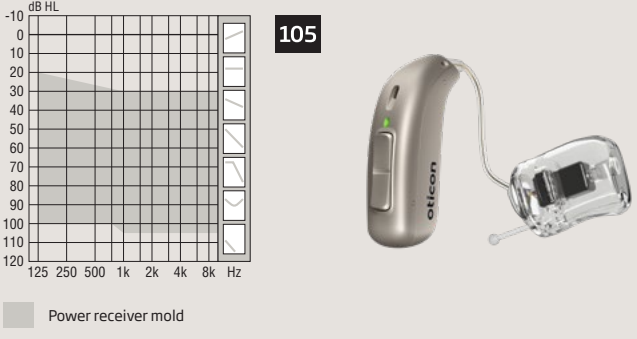
1) Measured with the gain control of the hearing aids set to their full-on position minus 20 dB and with an input SPL of 70 dB. This is to obtain a gain response equal to the full-on gain response from e.g. IEC 60118-0:1983+A1:1994 but without influence of feedback.

2) Expected operating time for rechargeable battery depends on use pattern, active feature set, hearing loss, sound environment, battery age and use of wireless accessories.

|  |   | Ear Simulator<br>Measured according to<br>IEC 60118-0:1983/AMD1:1994, IEC 60118-0:2015,<br>IEC 60118-1:1995+AMD1:1998 CSV<br>and IEC 60318-4:2010                                    | 2CC Coupler<br>Measured according to<br>ANSI S3.22-2014, IEC 60118-0:2015<br>and IEC 60318-5:2006  |
|--|---|--|--|
|  <p>100</p> <p>Power receiver mold, Bass &amp; Power dome</p> |   | <p>OSPL90</p>   | <p>OSPL90</p>           |
|  | <p>Technical information</p> <p>Omnidirectional mode is used unless otherwise stated.</p> <p>Warning to the hearing aid dispenser</p> <p>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.</p> <p>— Acoustic input: 60 dB SPL<br/>- - - Magnetic input: 31.6 mA/m</p> |  | <p>Full-on Gain</p>   |
|  | Peak (dB SPL)   | 132  | 124  |
| OSPL90   | 1600 Hz (dB SPL)  | 130  | 122  |
|  | HFA-OSPL90 (dB SPL)   | 127  | 120  |
| Full-on Gain <sup>1</sup>  | Peak (dB)   | 66   | 57   |
|  | 1600 Hz (dB)  | 60   | 52   |
|  | HFA-FOG (dB)  | 61   | 53   |
| Reference test gain (dB)   |   | 53   | 42   |
| Frequency range (Hz)   |   | 100-7500   | 100-7500   |
| Telecoil output  | 1 mA/m field (1600 Hz) (dB SPL)   | 91   |  |
|  | 10 mA/m field (1600 Hz) (dB SPL)  | 111  |  |
|  | HFA-SPLITS L/R (dB SPL)   |  | 100/100  |
| Total harmonic distortion<br>(Input 70 dB SPL)   | 500 Hz (%)  | <9   | <2   |
|  | 800 Hz (%)  | <6   | <2   |
|  | 1600 Hz (%)   | <3   | <2   |
| Equivalent input noise level   | Omni (dB SPL)   | 17   | 17   |
|  | Dir (dB SPL)  | 26   | 29   |
| Battery  |   | Lithium-ion  | Lithium-ion  |
| Expected operating time, hours <sup>2</sup>  |   | 24   |  |

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+AMD1:1994 but without influence of feedback.


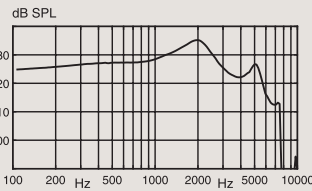
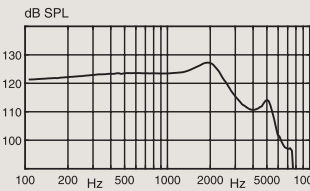
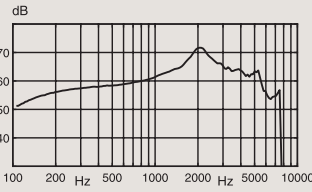
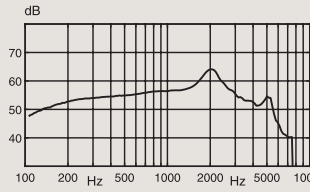
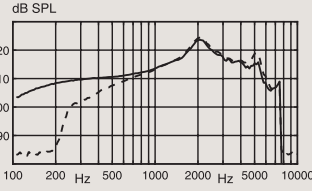
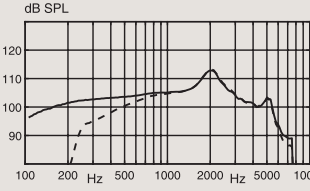
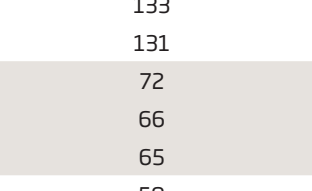
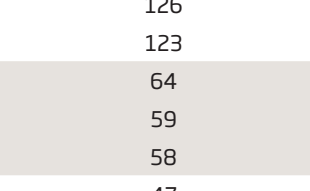
2) Expected operating time for rechargeable battery depends on use pattern, active feature set, hearing loss, sound environment, battery age and use of wireless accessories.

|  |                                  | <b>Ear Simulator</b><br>Measured according to<br>IEC 60118-0:1983/AMD1:1994, IEC 60118-0:2015,<br>IEC 60118-1:1995+AMD1:1998 CSV<br>and IEC 60318-4:2010 | <b>2CC Coupler</b><br>Measured according to<br>ANSI S3.22-2014, IEC 60118-0:2015<br>and IEC 60318-5:2006 |
|--|----------------------------------|--|--|
|  <p><b>105</b></p> <p>Power receiver mold</p> <p><b>Technical information</b><br/>Omnidirectional mode is used unless otherwise stated.</p> <p><b>Warning to the hearing aid dispenser</b><br/>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.</p> <p>— Acoustic input: 60 dB SPL<br/>- - - Magnetic input: 31.6 mA/m</p> |                                  | <b>OSPL90</b>  | <b>OSPL90</b>  |
|  |                                  | <b>Full-on Gain</b>  | <b>Full-on Gain</b>  |
|  |                                  | <b>Frequency Response</b>  | <b>Frequency Response</b>  |
|  |                                  |  |  |
|  | Peak (dB SPL)                    | 135  | 127  |
| OSPL90   | 1600 Hz (dB SPL)                 | 133  | 126  |
|  | HFA-OSPL90 (dB SPL)              | 131  | 123  |
|  | Peak (dB)                        | 72   | 64   |
| Full-on Gain <sup>1</sup>  | 1600 Hz (dB)                     | 66   | 59   |
|  | HFA-FOG (dB)                     | 65   | 58   |
| Reference test gain (dB)   |                                  | 58   | 47   |
| Frequency range (Hz)   |                                  | 100-9100   | 100-7900   |
|  | 1 mA/m field (1600 Hz) (dB SPL)  | 96   |  |
| Telecoil output  | 10 mA/m field (1600 Hz) (dB SPL) | 116  |  |
|  | HFA-SPLITS L/R (dB SPL)          |  | 105/105  |
|  | 500 Hz (%)                       | <2   | <2   |
| Total harmonic distortion<br>(Input 70 dB SPL)   | 800 Hz (%)                       | <2   | <2   |
|  | 1600 Hz (%)                      | <4   | <2   |
|  | Omni (dB SPL)                    | 16   | 16   |
| Equivalent input noise level   | Dir (dB SPL)                     | 25   | 28   |
| Battery  |                                  | Lithium-ion  | Lithium-ion  |
| Expected operating time, hours <sup>2</sup>  |                                  | 24   |  |

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+AMD1:1994 but without influence of feedback.

2) Expected operating time for rechargeable battery depends on use pattern, active feature set, hearing loss, sound environment, battery age and use of wireless accessories.



|  |   | Ear Simulator<br>Measured according to<br>IEC 60118-0:1983/AMD1:1994, IEC 60118-0:2015,<br>IEC 60118-1:1995+AMD1:1998 CSV<br>and IEC 60318-4:2010   | 2CC Coupler<br>Measured according to<br>ANSI S3.22-2014, IEC 60118-0:2015<br>and IEC 60318-5:2006   |                                  |
|--|---|---|---|----------------------------------|
|  <p><b>105</b></p> <p>Power receiver mold</p> <p><b>Technical information</b><br/>Omnidirectional mode is used unless otherwise stated.</p> <p><b>Warning to the hearing aid dispenser</b><br/>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.</p> <p>— Acoustic input: 60 dB SPL<br/>- - - Magnetic input: 31.6 mA/m</p> |   | <p><b>OSPL90</b></p>           | <p><b>OSPL90</b></p>                   |                                  |
|  |   | <p><b>Full-on Gain</b></p>   | <p><b>Frequency Response</b></p>   |                                  |
|  |   | <p>Peak (dB SPL)</p> <p>OSPL90</p> <p>1600 Hz (dB SPL)</p> <p>HFA-OSPL90 (dB SPL)</p>   | <p>135</p> <p>133</p> <p>131</p>  | <p>127</p> <p>126</p> <p>123</p> |
|  |   | <p>Full-on Gain<sup>1</sup></p> <p>Peak (dB)</p> <p>1600 Hz (dB)</p> <p>HFA-FOG (dB)</p>  | <p>72</p> <p>66</p> <p>65</p>   | <p>64</p> <p>59</p> <p>58</p>    |
|  | Reference test gain (dB)                    | 58  | 47  |                                  |
|  | Frequency range (Hz)                        | 100-7500  | 100-7500  |                                  |
|  | 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)                     |   | 104/104   |                                  |
|  | Total harmonic distortion (Input 70 dB SPL) |   |   |                                  |
|  | 500 Hz (%)                                  | <2  | <2  |                                  |
|  | 800 Hz (%)                                  | <2  | <2  |                                  |
|  | 1600 Hz (%)                                 | <4  | <2  |                                  |
|  | Equivalent input noise level                |   |   |                                  |
|  | Omni (dB SPL)                               | 16  | 16  |                                  |
|  | Dir (dB SPL)                                | 25  | 28  |                                  |
|  | Battery                                     | Lithium-ion   | Lithium-ion   |                                  |
|  | Expected operating time, hours <sup>2</sup> |   | 24  |                                  |

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+AMD1:1994 but without influence of feedback.

2) Expected operating time for rechargeable battery depends on use pattern, active feature set, hearing loss, sound environment, battery age and use of wireless accessories.





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