

# Technical data sheet

## miniRITE 85



Oticon Engage miniRITE is a discreet design with a smart single push button.

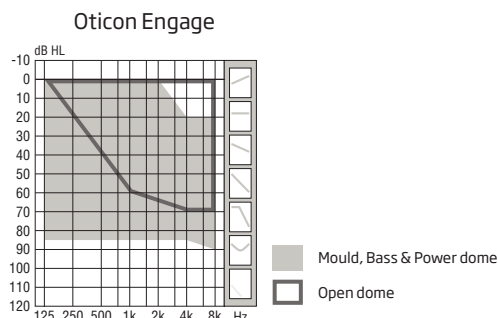
OpenSound Navigator™ provides better speech understanding by continuously analysing the environment, balancing all sound sources and attenuating the dominating noise.

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

Oticon Engage is a Made for iPhone® hearing aid.

Oticon Engage is built on the Velox™ platform, providing frequency resolution in 48 channels.

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



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| Oticon Engage                        |                                 |                             |
|--------------------------------------|---------------------------------|-----------------------------|
| Speech Understanding                 | OpenSound Navigator™            | Level 2                     |
|                                      | - Balancing power effect        | 50%                         |
|                                      | - Max. noise removal            | 5 dB                        |
|                                      | Speech Guard™ LX                | Level 2                     |
|                                      | Spatial Sound™ LX               | 2 estimators                |
|                                      | Soft Speech Booster LX          | •                           |
|                                      | Speech Rescue™ LX               | •                           |
| Sound Quality                        | Clear Dynamics                  | •                           |
|                                      | Spatial Noise Management        | •                           |
|                                      | Fitting Bandwidth*              | 8 KHz                       |
|                                      | Processing Channels             | 48                          |
|                                      | Bass Boost (streaming)          | •                           |
| Listening Comfort                    | Transient Noise Management      | On/Off                      |
|                                      | Feedback shield LX              | •                           |
|                                      | Wind Noise Management           | •                           |
| Personalisation & Optimising Fitting | YouMatic™ LX                    | 2 configurations            |
|                                      | Fitting Bands                   | 14                          |
|                                      | Multiple Directionality Options | •                           |
|                                      | Adaptation Management           | •                           |
|                                      | Oticon Firmware Updater         | •                           |
|                                      | Fitting Formulas                | VAC+, NAL-NL1 + 2, DSL v5.0 |
| Connecting to the World              | Stereo streaming (2.4 GHz)      | •                           |
|                                      | Oticon ON app                   | •                           |
|                                      | ConnectClip                     | •                           |
|                                      | Remote Control 3.0              | •                           |
|                                      | TV Adapter 3.0                  | •                           |
|                                      | Tinnitus SoundSupport™          | •                           |
| Expected battery life, hours**       |                                 | 55-65                       |

\* Bandwidth accessible for gain adjustments during fitting

\*\* Battery size 312 - IEC PR41.

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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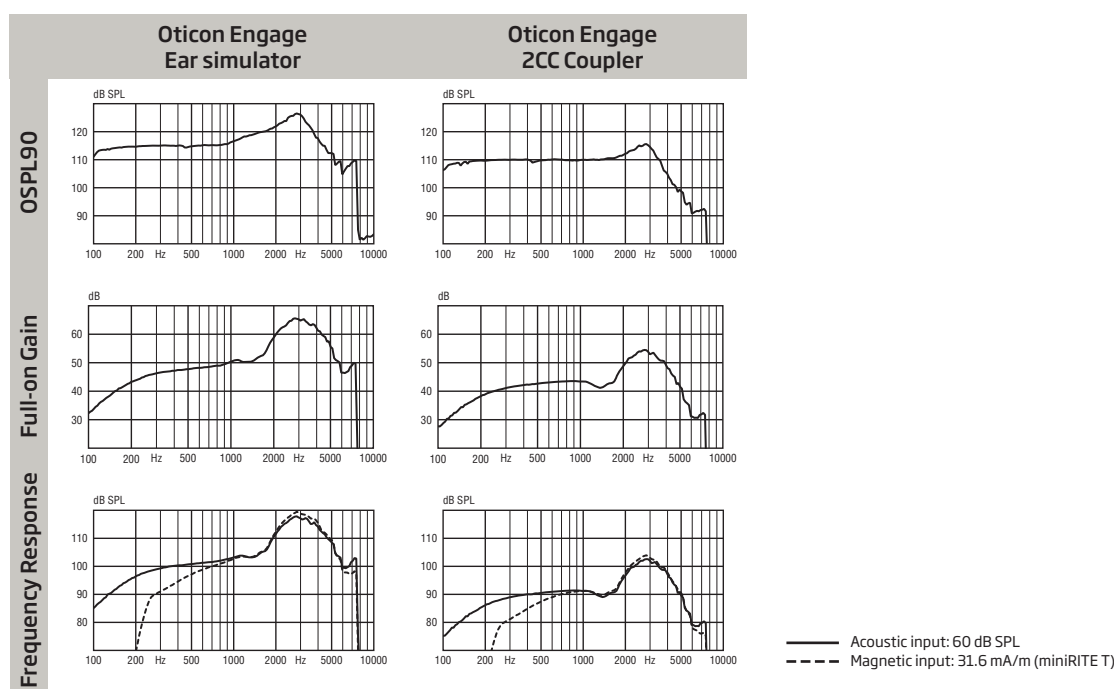
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| Technical data<br>Measured according to        |               | Ear Simulator<br>IEC 60118-0:1983/AMD1:1994, IEC 60118-0:2015,<br>IEC 60118-1:1995+AMD1:1998 CSV and<br>IEC 60318-4:2010 | 2CC Coupler<br>ANSI S3.22-2014, IEC 60118-0:2015<br>and IEC 60318-5:2006 |
|------------------------------------------------|---------------|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| <b>Oticon Engage miniRITE</b>                  |               | Engage                                                                                                                   | Engage                                                                   |
| Frequency range Hz                             |               | 120-7500                                                                                                                 | 100-7500                                                                 |
| OSPL90                                         | Peak          | 127 dB SPL                                                                                                               | 116 dB SPL                                                               |
|                                                | 1600 Hz       | 120 dB SPL                                                                                                               | 111 dB SPL                                                               |
|                                                | HFA-OSPL90    | 121 dB SPL                                                                                                               | 112 dB SPL                                                               |
| Full-on gain*                                  | Peak          | 66 dB                                                                                                                    | 54 dB                                                                    |
|                                                | 1600 Hz       | 52 dB                                                                                                                    | 43 dB                                                                    |
|                                                | HFA-FOG       | 55 dB                                                                                                                    | 47 dB                                                                    |
| Reference test gain                            |               | 45 dB                                                                                                                    | 34 dB                                                                    |
| 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) | 26                                                                                                                       | 21                                                                       |
|                                                | Dir (dB SPL)  | 33                                                                                                                       | 30                                                                       |
| Battery consumption**                          | Typical       | 1.6 mA                                                                                                                   | 1.7 mA                                                                   |
|                                                | Quiescent     | 1.5 mA                                                                                                                   | 1.5 mA                                                                   |
| Battery life, artificial measurement, hours*** |               | 110                                                                                                                      | 105                                                                      |
| IRIL (IEC 60118-13:2011) miniRITE              |               | 800/1400/2000 MHz: 31/<15/<15 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  
(34°F to 104°F)  
Humidity: 5% - 93% relative  
humidity, non-condensing  
Atmospheric pressure:  
700 hPa to 1060 hPa

#### Storage and transportation conditions

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

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



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