**OTICON | Opn S**

Technical data sheet
miniRITE T

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<th>Oticon Opn S 2</th>
<th>Oticon Opn S 3</th>
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<td><strong>Speech Understanding</strong></td>
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<td>OpenSound Navigator™</td>
<td>Level 1</td>
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<td>- Balancing power effect</td>
<td>100%</td>
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<td>- Max. noise removal</td>
<td>9 dB</td>
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<td>OpenSound Optimizer™</td>
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<td>Speech Guard™ LX</td>
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<td>Spatial Sound™ LX</td>
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<td>Soft Speech Booster LX</td>
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<td><strong>Sound Quality</strong></td>
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<td>Spatial Noise Management</td>
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<td>Fitting Bandwidth*</td>
<td>10 KHz</td>
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<td>Processing Channels</td>
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<td>Bass Boost (streaming)</td>
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<td><strong>Listening Comfort</strong></td>
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<td>Transient Noise Management</td>
<td>4 configurations</td>
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<td>Feedback noise Management</td>
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<td>Fitting Bands</td>
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<td>Multiple Directionality Options</td>
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<td>Adaptation Management</td>
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<td>Oticon Firmware Updater</td>
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<td>Fitting Formulas</td>
<td>VAC+, NAL-NL1 + 2, DSL v5.0</td>
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<td><strong>Personalization &amp; Optimizing Fitting</strong></td>
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<td>Stereo streaming (2.4 GHz)</td>
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<td>Phone Adapter 2.0</td>
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<td>Tinnitus SoundSupport™</td>
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* Bandwidth accessible for gain adjustments during fitting

**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

Oticon Opn S™ miniRITE T

is a discreet style, based on the popular miniRITE, and features both telecoil and a convenient double push-button for easy volume and program control.

OpenSound Navigator™ helps users to select and understand speech in all types of environments by balancing the sound sources and attenuating noise.

OpenSound Optimizer™ improves users listening experience and comfort by blocking feedback and secure the targeted amplification of sound sources.

TwinLink™ wireless technology combines binaural communication and 2.4 GHz connectivity with stereo streaming directly from digital devices.

Oticon Opn S is built on the powerful Velox S™ platform which has a programmable firmware architecture, supporting future performance updates.
### Technical information
**Omnidirectional mode is used unless otherwise stated.**

**Telecoil output (1600 Hz)**
- **Frequency range**: 110-7500 Hz
- **Reference test gain**: 30 dB
- **Full-on gain**
  - 1600 Hz: 29 dB
- **Reference test gain**: 30 dB
- **Frequency range**: 110-7500 Hz

### Technical data

#### Ear Simulator

#### 2CC Coupler

#### Acoustic input: 60-80 dB SPL, Magnetic input: 31.6 mA/m

#### Magnetic input: 31.6 mA/m
- **Field**: 87 dB SPL

#### Acoustic input: 60-80 dB SPL, Magnetic input: 31.6 mA/m

#### Magnetic input: 31.6 mA/m
- **Field**: 87 dB SPL

#### Impedance
- **Telecoil output**: 1 mA/m field
- **Frequency range**: 110-9700 Hz
- **Reference test gain**: 30 dB

#### Equivalent input noise level
- **Omni**: 21 dB SPL
- **Dir**: 28 dB SPL

#### Battery consumption
- **Typical**: 1.5 mA
- **Quiescent**: 1.5 mA

#### Battery life, artificial measurement, hours
- **Expected battery life, hours (battery size 312 - IEC PR41)**
  - Opn S 1: 120
  - Opn S 2 & 3: 115

#### 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.

#### 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.

**Technical data**

**Ear Simulator**

**2CC Coupler**

**Technical information**
- Omnidirectional mode is used unless otherwise stated.
- 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 would be measured e.g. IEC 60118-0+A1:1994 but without influence of feedback.

**Oticon Opn S 1**

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<th>2CC Coupler</th>
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### Technical data

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<th>Specification</th>
<th>Oticon Opn S 1</th>
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<tr>
<td><strong>Frequency range</strong></td>
<td>100–8500 Hz</td>
<td>100–8000 Hz</td>
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<td><strong>Telecoil output (1600 Hz)</strong></td>
<td>1 mA/m field</td>
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<td><strong>Reference test gain</strong></td>
<td>49 dB</td>
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<td><strong>Frequency range</strong></td>
<td>100–10000 Hz</td>
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<tr>
<td><strong>Telecoil output (1600 Hz)</strong></td>
<td>10 mA/m field</td>
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<td><strong>Reference test gain</strong></td>
<td>49 dB</td>
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<td><strong>Frequency range</strong></td>
<td>100–7500 Hz</td>
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### Technical information

**Omnidirectional mode is used unless otherwise stated.**

**Instruments in the Oticon Opn S Series are**

- **Oticon Opn S 1**
- **Oticon Opn S 2**
- **Oticon Opn S 3**

- **Oticon Opn S 2 & 3**

**Battery consumption**

1. 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. EC 60118-0:1984 but without influence of feedback.

**Expected battery life, hours (battery size 312 - IEC PR41)**

1. Measured with the gain control of the hearing aid set to its full-on position minus 20 dB and with an input SPL of 101 dB. This is to obtain a gain response equal to the full-on gain response from e.g. EC 60118-0:1984 but without influence of feedback.

**Expected battery life, hours (battery size 312 - IEC PR41)**

1. Measured with the gain control of the hearing aid set to its full-on position minus 20 dB and with an input SPL of 101 dB. This is to obtain a gain response equal to the full-on gain response from e.g. EC 60118-0:1984 but without influence of feedback.

**Battery current**

1. 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. EC 60118-0:1984 but without influence of feedback.

**Instrument warning**

The maximum output capability of the hearing instrument may exceed 132 dB SPL (IEC 711). Special care should be exercised in selecting and fitting the instrument as there may be risk of impairing the remaining hearing of the hearing aid user.

**Acoustic input: 60 dB SPL**

**Telecoil output (1600 Hz)**

- HFA-OSPL90

**Frequency Response**

- **Full-on Gain**: 86 dB SPL
- **Reference test gain**: 106 dB SPL
- **Total harmonic distortion (Input 70 dB SPL)**
  - 500 Hz: <7 %
  - 1600 Hz: <2 %
- **Equivalent input noise level**: 23 dB SPL
- **Battery consumption**: 1.5 mA

**Battery life, artificial measurement, hours**

- IRL (IEC 60118-1:2011): 115

**Battery life, artificial measurement, hours**

- IRL (IEC 60118-1:2011): 105

**Omnidirectional mode is used unless otherwise stated.**

**Instruments in the Oticon Opn S Series are**

- **Oticon Opn S 1**
- **Oticon Opn S 2**
- **Oticon Opn S 3**

**Battery consumption**

1. 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. EC 60118-0:1984 but without influence of feedback.

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**Battery life, artificial measurement, hours**

- IRL (IEC 60118-1:2011): 115

**Battery life, artificial measurement, hours**

- IRL (IEC 60118-1:2011): 105
Technical data

Ear Simulator


2CC Coupler


Technical information

1) 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.

2) Battery current is measured according to IEC 60118-0:1983/A1:1994 §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 exercised in selecting and fitting the instrument as there may be risk of impairing the remaining hearing of the hearing aid user.

4) Expected battery life, hours (battery size 312 - IEC PR41)

5) 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.

6) Battery current is measured according to IEC 60118-0:1983/A1:1994 §7.11, IEC 60118-0:2015 §7.7 and ANSI S3.22-2014 §6.13 after a settling time of minimum 3 minutes.

7) Measured according to the standardised battery consumption measurement (IEC 60118-0:1983/A1:1994 S1, IEC 60118-0:2015, IEC 60118-1:1995 CSV and IEC 60318-4:2010). The actual battery life depends on battery quality, use pattern, active feature set, hearing loss exercised in selecting and fitting the instrument as there may be risk of impairing the remaining hearing of the hearing aid user.

8) Battery life, artificial measurement, hours

9) Expected battery life, hours (battery size 312 - IEC PR41)

10) 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.


12) Measured according to the standardised battery consumption measurement (IEC 60118-0:1983/A1:1994 S1, IEC 60118-0:2015, IEC 60118-1:1995 CSV and IEC 60318-5:2006). The actual battery life depends on battery quality, use pattern, active feature set, hearing loss exercised in selecting and fitting the instrument as there may be risk of impairing the remaining hearing of the hearing aid user.

13) Battery life, artificial measurement, hours

14) Expected battery life, hours (battery size 312 - IEC PR41)