

smartPlug

HEADSET INFORMATION

FCC COMPLIANCE STATEMENT

The Sensear model smartPlug headset with Bluetooth module, complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (i) This device may not cause harmful interference
- (ii) This device must accept any interference received, including interference that may cause undesired operation.

Warning: Any changes or modifications not expressly approved by Sensear Pty. Ltd. could void the user's authority to operate this equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/tv technician for help.

FOREWORD

Product Safety and RF Exposure Compliance

This product is designed to be used in conjunction with your radio. Before using this product, read the operating instructions for safe usage contained in the Product Safety and RF Exposure booklet enclosed with your radio.

Battery and Charging Information

The internal battery is shipped with a nominal charge between 30 and 50% and should be stored between -10°C (14°F) and 30°C (86°F) to minimize permanent capacity loss.

Do not charge your headset in temperatures below 0°C (32°F) or above 40°C (104°F). Conditions inside a parked car can exceed this range. Do not store your headset in a parked car. Do not store your headset in direct sunlight.

Storing your fully charged headset in high-temperature conditions may permanently reduce the life of the internal battery.

Battery life may temporarily shorten in low-temperature conditions.

Warning: Never dispose of batteries in a fire because they may explode.

Note: The battery is not a user replaceable part.

SPECIFICATIONS

<i>TECHNICAL SPECIFICATIONS</i>	<i>smartPlug</i>	
Weight	172g	6.1oz
Operational Temperature (charging)	0°C to +45°C	32°F to 113°F
Operational Temperature (discharging)	-20°C to +60°C	-4°F to 140°F
Battery Life	15 hours	
Battery Charge Time	5 hours	
Battery Charge Life	80% capacity after 300 full cycles 60% capacity after 500 full cycles	
Battery Chemistry	Lithium Polymer	
Housing Material	PC/ABS + TPE	
RoHS Compliant	Yes	
Bluetooth Version	3.0	
Bluetooth Profiles Supported	HSP, HFP v1.6, A2DP	
FM Radio Reception	88.0 – 108.0 MHz	
SR Transmitter Range	20m / 65ft line-of-site depending on region setting	
NRR (ANSI S3.19-1974)	31 dB	
SNR (EN352-2)	38 dB	
SLC80 (AS/NZS 1270-2002)	28 dB Class 5	
Charge Voltage	5V	

This product must not be dismantled by the user for any purpose. The unit cannot be repaired by the user.

NRR AND SLC80

The smartPlug has been certified to International hearing protection standards including EN352-2, EN352-7, ANSI S3.19-1974, ANSI 12.6-2008 and AS/NZS 1270-2002. The following passive attenuation ratings were observed:

<i>Model</i>	<i>SNR (EN352)</i>	<i>NRR (S3.19)</i>	<i>NRS (S12.6)</i>	<i>SLC80 (AS1270)</i>
smartPlug Foam Tip	38 dB	31 dB	29-39 dB	28 dB Class 5
smartPlug Silicone Tip	32 dB	24 dB	21-35 dB	19 dB Class 3

ATTENUATION

smartPlug measured in accordance with EN352-2.

Foam Tip

<i>F(Hz)</i>	<i>125</i>	<i>250</i>	<i>500</i>	<i>1000</i>	<i>2000</i>	<i>4000</i>	<i>8000</i>	<i>H</i>	<i>M</i>	<i>L</i>	<i>SNR</i>
Mean(dB)	38.8	35.4	40.7	39.8	40.9	40.8	44.3				
Std(dB)	4.8	3.2	3.5	4.7	3.5	3.7	3.7	37	36	35	38
APV(84%)	34.1	32.2	37.2	35.1	37.5	37.1	40.7	dB	dB	dB	dB

Silicone Tip

<i>F(Hz)</i>	<i>125</i>	<i>250</i>	<i>500</i>	<i>1000</i>	<i>2000</i>	<i>4000</i>	<i>8000</i>	<i>H</i>	<i>M</i>	<i>L</i>	<i>SNR</i>
Mean(dB)	33.5	31.2	35.7	32.8	35.1	33.6	40.8				
Std(dB)	5.0	4.7	4.7	4.9	3.2	3.4	4.5	31	29	29	32
APV(84%)	28.5	26.5	30.9	27.9	31.9	30.2	36.3	dB	dB	dB	dB

The smartPlug has level dependent facilities and the criterion levels defined in EN352-7 are displayed below.

<i>Model</i>	<i>H</i>	<i>M</i>	<i>L</i>
smartPlug Foam Tip	115.4 dBA	118.0 dBA	118.1 dBA
smartPlug Silicone Tip	111.9 dBA	112.2 dBA	110.7 dBA

The headset is an active hearing protector that allows audible contact with your surroundings while providing protection from harmful noise.

It is recommended that the headset is fitted, adjusted and maintained in accordance with these instructions. This headset should be worn at all times in noisy surroundings. The headset should be regularly inspected for serviceability.

The smartPlug headset is supplied with disposable ear-tips that can be fitted to the ear-buds. There are three sizes of ear-tips available with nominal diameters as follows:

S=10.5mm M=12mm L=14mm.

Warning: Small and Medium size ear tips are of 'small size range' or 'large size range'. Ear-plugs complying with EN 352-2 are of 'medium size range' or 'small size range' or 'large size range'. 'Medium size range' ear-plugs will fit the majority of wearers. 'Small size range' or 'large size range' ear-plugs are designed to fit wearers for whom 'medium size range' ear-plugs are not suitable.

Warning: If these instructions are not followed the protection of the headset will be severely impaired.

Warning: Noise reduction will be adversely affected by anything that impairs the seal of the earplug eartips against the ear canal.

Warning: The reported attenuation will be obtained only if the headset is in good condition and worn as directed (Refer to AS/NZS 1269.3 for guidance).

Warning: These ear-plugs should not be used where there is a risk that the connecting cord could be caught up during use.

This ear-plug is provided with level-dependent attenuation. The wearer should check correct operation before use. If distortion or failure is detected, the wearer should refer to the manufacturers advice for maintenance and replacement of the battery.

Warning: Performance may deteriorate with battery usage. The typical period of continuous use that can be expected from the ear-plug battery is 15 hours.

Warning: The output of the level-dependent circuit of this hearing protector may exceed the daily limit sound level.

This headset has been tested and approved according to the methods described in the EN352 series of standards. EN352 testing was conducted by:

Michael & Associates, Inc.
2766 W. College Ave Suite 1
State College, PA, 16801
USA
15 December 2014

MAINTENANCE AND STORAGE OF YOUR HEADSET

This product may be adversely affected by certain chemical substances. Further information should be sought from the manufacturer.

The headset should be stored at room temperature (between 15°C/59°F and 25°C/77°F). If storing for long periods (greater than 1 month) discharge the unit for at least 2 hours before storing for maximum battery life.

Please note that the battery is not user replaceable. If it becomes damaged or faulty, return to a Sensear authorised distributor for repair.

ACCESSORIES AND SPARE PARTS

SRCKOxxx	Various models, two-way radio interface cables for most popular two way radios.
POW00003	Mains charger compatible with smartPlug
POW00002	Vehicle charger compatible with smartPlug
FETSM001	smartPlug Foam Ear Tip Small
FETMD001	smartPlug Foam Ear Tip Medium
FETLG001	smartPlug Foam Ear Tip Large

Further information may be obtained from your stockist, via the Sensear website or emailing or writing to the addresses below.

DECLARATION OF CONFORMITY

We, the undersigned,

Company	Sensear Pty Ltd
Address	197-199 Great Eastern Highway, Belmont, WA, 6104
Country	Australia
Telephone Number	+61 8 9277 7332
Fax Number	+61 8 9277 7338
Web	http://www.sensear.com
Email	info@sensear.com

Declare that:

Model smartPlug in accordance with the following directives:

- 69/686/EEC
- 99/5/EC
- 2006/95/ED
- 2004/108/EC
- 98/37/ED

Has been designed and manufactured to the following specifications:

- ETSI EN 352-2, EN 352-7
- ETSI EN 301 489
- EN 60950

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