



||| SAFETY THAT SPEAKS VOLUMES

# workplace

## hearing protection



Product Catalog

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# Sensear Drives a New Approach to Hearing Protection and High-Noise Communication

## The Problems Workers Face in High-Noise Environments

Compliance. Communication. Safety. A noisy environment is one of the main stress triggers for employees and can contribute to reduced productivity. In high-noise environments, sounds coming from machinery or equipment produce high or extreme noise levels that can adversely affect communication between workers. Common practices like shouting at others or asking them to talk loudly are barely effective. If employees cannot alert each other, accidents can occur and cause injuries. As OSHA requires workers to wear hearing protection in environments where noise reaches or exceeds 85 dB(A), workers run into issues by removing their hearing protection when they need to communicate with one another. Most employees have a critical requirement to communicate with colleagues without leaving hazardous noise environments, and traditional hearing protection headsets restrict the workers' ability to hear, making communication challenging or even impossible. Therefore, workers need a solution that provides the correct level of hearing protection, while allowing employees to communicate and have total situational awareness.

## SENS Technology

Speech Enhancement + Noise Suppression



## The Solution: SENS® Technology

SENS® takes noise cancellation to a whole new level. By isolating and enhancing speech while reducing harmful background noise, users can hear speech and stay protected while remaining aware of their surroundings in high-noise environments.

SENS® Technology brings low noise hearing experiences into high noise environments by enabling users to communicate effectively and remain aware of their surroundings while protecting their hearing. SENS® delivers three critical benefits in the one technology. It's simple - if you are looking for the best high noise communication devices, don't ask for noise-canceling ear protection, ask for SENS® electronic ear protection.

SENS® is in a full range of hearing protection and communication solutions.



Hearing loss can  
impact safety at home  
and on the job

**global facts about**

hearing  
loss

The background of the entire page is a dark, industrial scene featuring silhouettes of metal structures, walkways, and railings. A faint, glowing orange soundwave graphic is visible on the left side, extending horizontally across the middle section. The overall color palette is dark, with shades of purple, blue, and orange.

## Over 600 Million Workers

are exposed to noise levels high enough to cause irreversible hearing loss

## Around 200 Million

workplace hearing loss cases occur annually, many resulting in permanent hearing loss

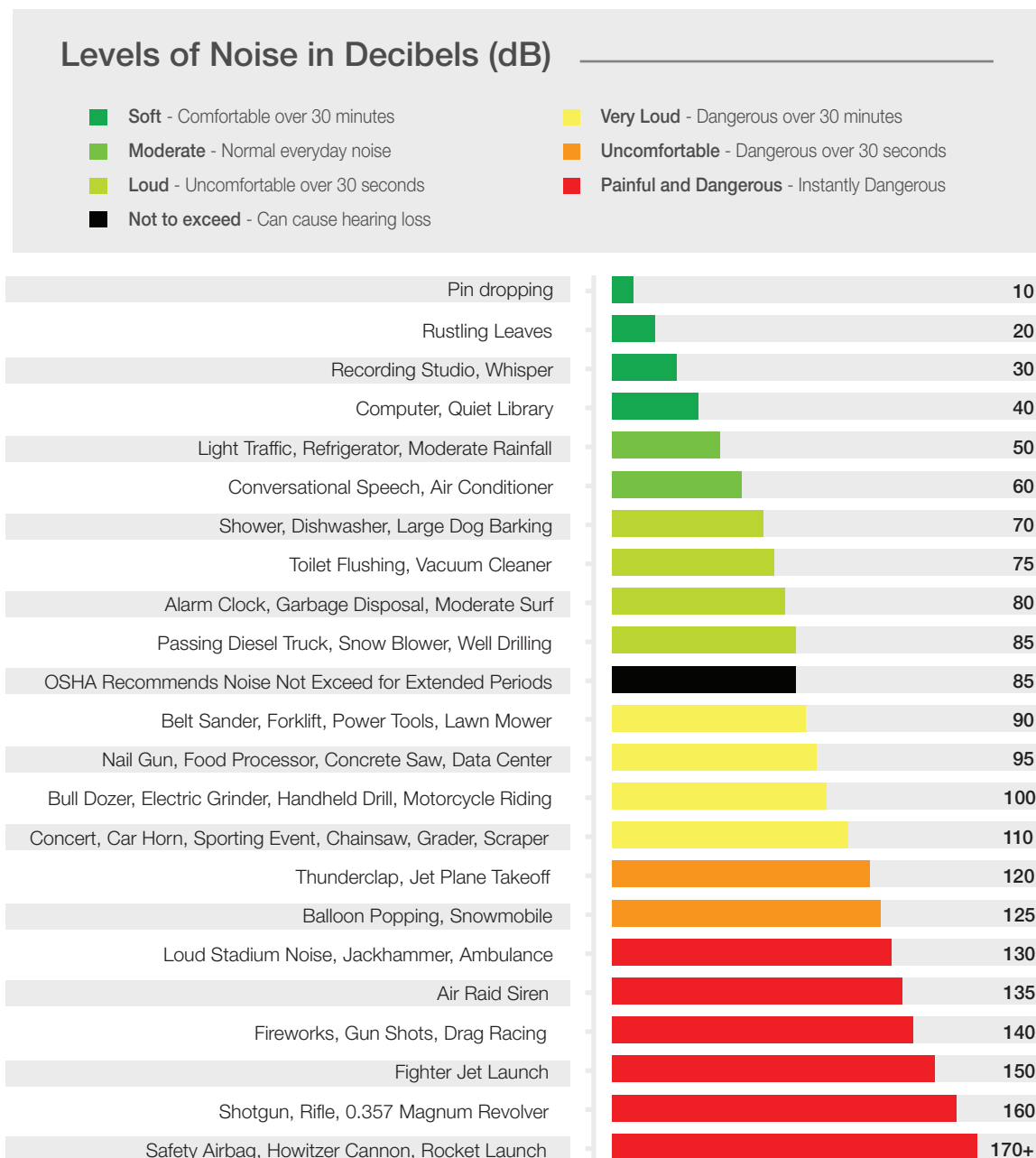
The indirect costs of occupational hearing loss are more than

**\$980 Billion USD Globally**

# do you work in a high-noise environment?



The graphic below will help you determine whether or not you work in a high-noise environment that would require hearing protection.



For more guides and infographics, visit:  
[sensear.com/markets-served/infographics](https://sensear.com/markets-served/infographics)

# Sensear in Action

## Hear Speech and Stay Protected with SENS® Technology

### SITUATIONAL AWARENESS

When working in a hazardous plant or work environment, you often hear that you need to be aware of your surroundings or to be risk-averse. SENS® enables 360° situational awareness, retains original sound characteristics, and reduces the risk of accidents. It accomplishes this by isolating and enhancing speech while reducing harmful background noise, so users can hear speech and stay protected while remaining aware of their surroundings in high-noise environments. SENS® determines the nature, distance, and directionality of all sounds including speech, machinery/vehicles, and alarms.

**Featured industries:** Solid Waste, Lumber, and Transportation

### COMMUNICATION

Most employees have a critical requirement to communicate with colleagues and traditional hearing protection headsets restrict the workers' ability to communicate. Sensear delivers a total high-noise communication solution by ensuring users can communicate face-to-face, at short and long distances via two-way radio, Bluetooth® cell phone, and other communication systems.

**Featured industries:** Data Centers, Manufacturing, and Road Construction

### EXTREME NOISE ENVIRONMENTS

In extremely loud environments, traditional methods of hearing protection just don't provide enough noise reduction. That's where double hearing protection comes in. While double hearing protection is achieved by wearing both earplugs and a hearing protection headset device at the same time, Sensear is the only manufacturer of double protection headsets with earplugs integrated into the earmuffs.

**Featured industries:** Steel Milling, Agriculture, and Construction

### HAZARDOUS LOCATIONS

Because of the nature of hazardous work environments, hearing protection may need to be certified as Intrinsically Safe (IS or Ex). Products marketing intrinsically safe must be certified by an accredited organization. Sensear's range of Hazardous Location Smart Headsets and Earplugs are certified by five major standards (UL, CSA, TIA, ATEX, and IECEx). As a global supplier to some of the largest industries and users in these environments, Sensear takes pride in providing the highest quality and testing standards in our devices. Documentation is available upon request.

**Featured industries:** Oil & Gas, Food Processing, and Mining

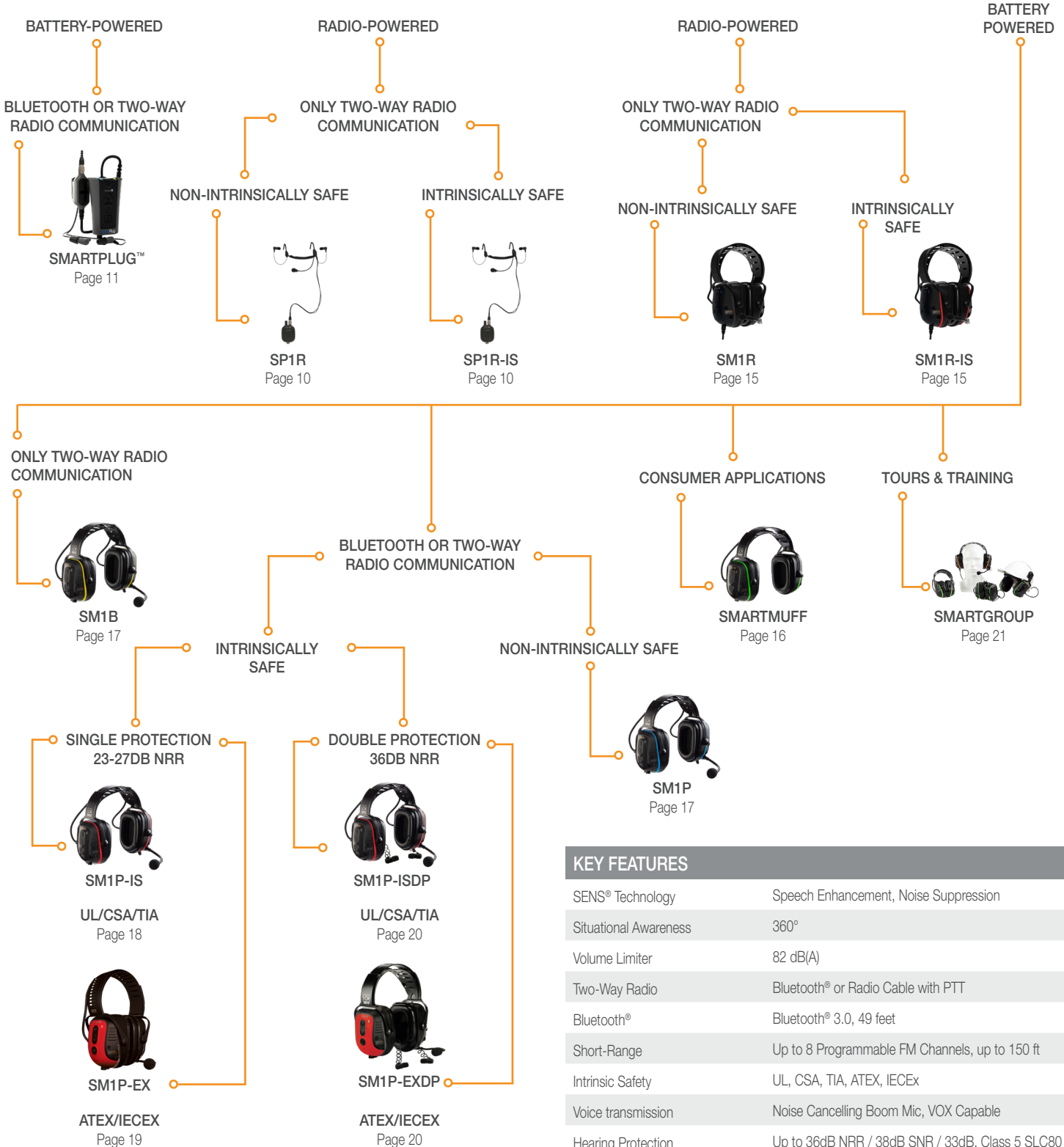




Sensear is solving high noise communication problems for many of the world's leading companies. Our range of Smart Headset and Smart Earplug products are comprehensive communication solutions for many applications in some of the world's noisiest and harshest environments.

## Earplugs

## Headsets



### KEY FEATURES

|                       |   |
|-----------------------|---|
| SENS® Technology      | Speech Enhancement, Noise Suppression           |
| Situational Awareness | 360°  |
| Volume Limiter        | 82 dB(A)  |
| Two-Way Radio         | Bluetooth® or Radio Cable with PTT              |
| Bluetooth®            | Bluetooth® 3.0, 49 feet                         |
| Short-Range           | Up to 8 Programmable FM Channels, up to 150 ft  |
| Intrinsic Safety      | UL, CSA, TIA, ATEX, IECEx                       |
| Voice transmission    | Noise Cancelling Boom Mic, VOX Capable          |
| Hearing Protection    | Up to 36dB NRR / 38dB SNR / 33dB, Class 5 SLC80 |



### What type of communication earplugs do you need?



### Feature Comparison Matrix:

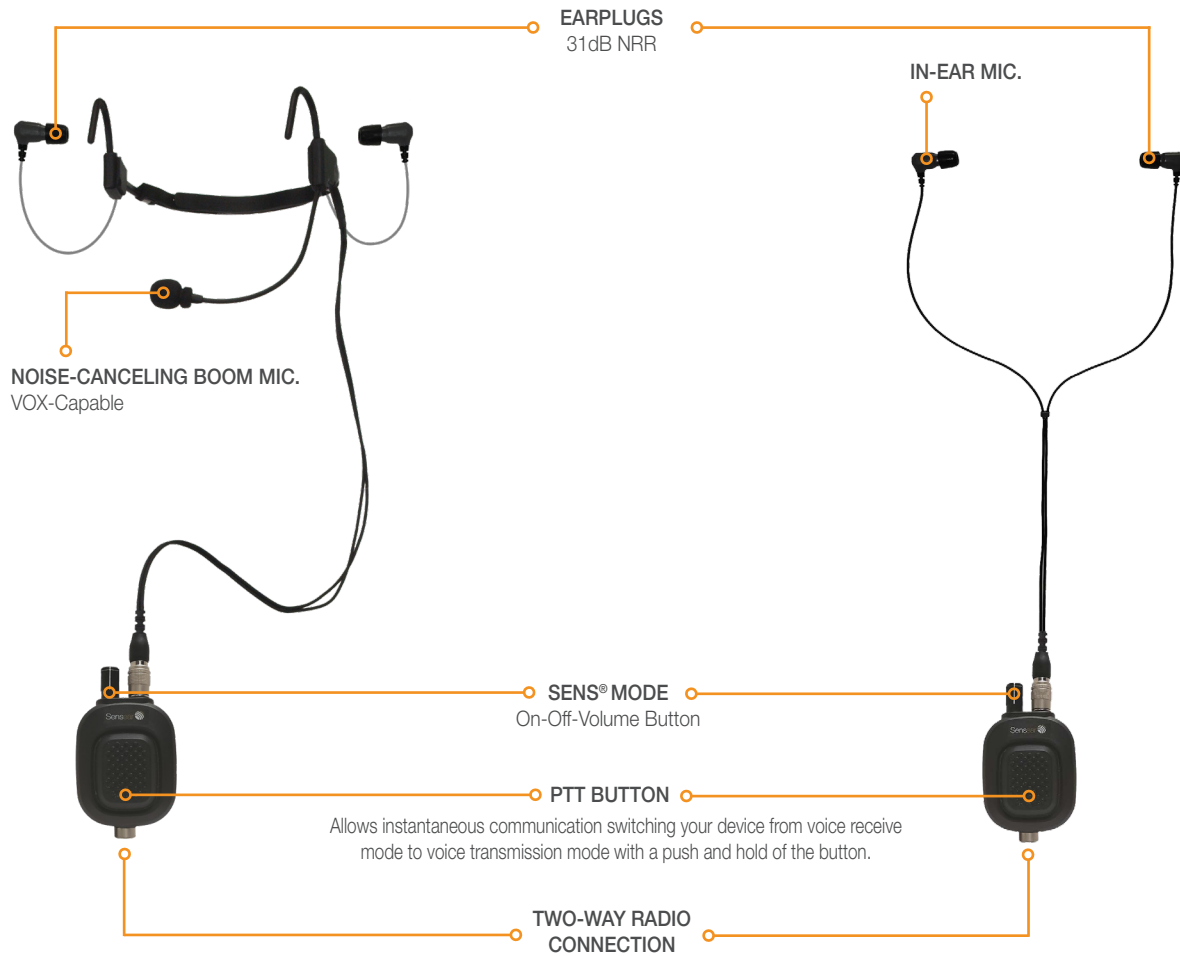
| PART NUMBER      | SMPLUG030001 | SP1RE02 | SP1REIS02 | SP1RM02 | SP1RMIS02 |
|------------------|--------------|---------|-----------|---------|-----------|
| SENS® Technology | •            | •       | •         | •       | •         |
| 360° Awareness   | •            | •       | •         | •       | •         |
| Volume Limiter   | •            | •       | •         | •       | •         |
| In-Ear Mic       | •            | •       | •         |         |           |
| Boom Mic Option  |              |         |           | •       | •         |
| Two-Way Radio    | •            | •       | •         | •       | •         |
| Bluetooth®       | •            |         |           |         |           |
| Short-Range      | •            |         |           |         |           |
| Intrinsic Safety |              |         | •         |         | •         |
| VOX-Capable      |              |         |           | •       | •         |
| Radio-Powered    |              | •       | •         | •       | •         |
| Battery-Powered  | •            |         |           |         |           |

### Sensear Earplugs Part Number Index:

| PRODUCT NAME | PART NUMBER  | MIC STYLE  | NRR  | SNR  | SLC80         |
|--------------|--------------|------------|------|------|---------------|
| SP1R         | SP1RE02      | In-Ear Mic | 31dB | 38dB | 28dB, Class 5 |
|              | SP1RM02      | Boom Mic   | 31dB | 38dB | 28dB, Class 5 |
| SP1R-IS      | SP1REIS02    | In-Ear Mic | 31dB | 38dB | 28dB, Class 5 |
|              | SP1RMIS02    | Boom Mic   | 31dB | 38dB | 28dB, Class 5 |
| smartPlug™   | SMPLUG030001 | In-Ear Mic | 31dB | 38dB | 28dB, Class 5 |

## SP1R: An In-Ear Solution Powered by Radio

The SP1R is a revolution in lightweight hearing protection. Built specifically to enhance two-way radio communications in high-noise environments, it is powered by your two-way radio, thus eliminating the need for charging. The SP1R delivers Sensear's exceptional SENS® Technology into the most compact hearing solution in the industry. In addition to the lightweight, rugged boom microphone headset, the SP1R offers an in-ear microphone specifically for users of respirators or other equipment that restricts boom-mic usage. Additionally, the SP1R has an intrinsically safe option, the SP1R-IS, with TIA, CSA, & UL certifications.



| PART NUMBER | DESCRIPTION   | NRR  | SNR  | SLC80         |
|-------------|---|------|------|---------------|
| SP1RE02     | Two-Way Radio Earplugs with In-Ear Mic                    | 31dB | 38dB | 28dB, Class 5 |
| SP1RM02     | Two-Way Radio Earplugs with Boom Mic                      | 31dB | 38dB | 28dB, Class 5 |
| SP1REIS02   | Hazardous Location Two-Way Radio Earplugs with In-Ear Mic | 31dB | 38dB | 28dB, Class 5 |
| SP1RMIS02   | Hazardous Location Two-Way Radio Earplugs with Boom Mic   | 31dB | 38dB | 28dB, Class 5 |

| KEY FEATURES          |  |
|-----------------------|--|
| Speech Enhancement    | Face-to-Face Communication             |
| Situational Awareness | 360°                                   |
| Volume Limiter        | 82 dB(A)                               |
| Two-Way Radio         | Radio Cable with PTT                   |
| Intrinsic Safety      | UL, CSA, TIA                           |
| Voice transmission    | Noise Cancelling Boom Mic, VOX-Capable |
| IP Rating             | IP67                                   |

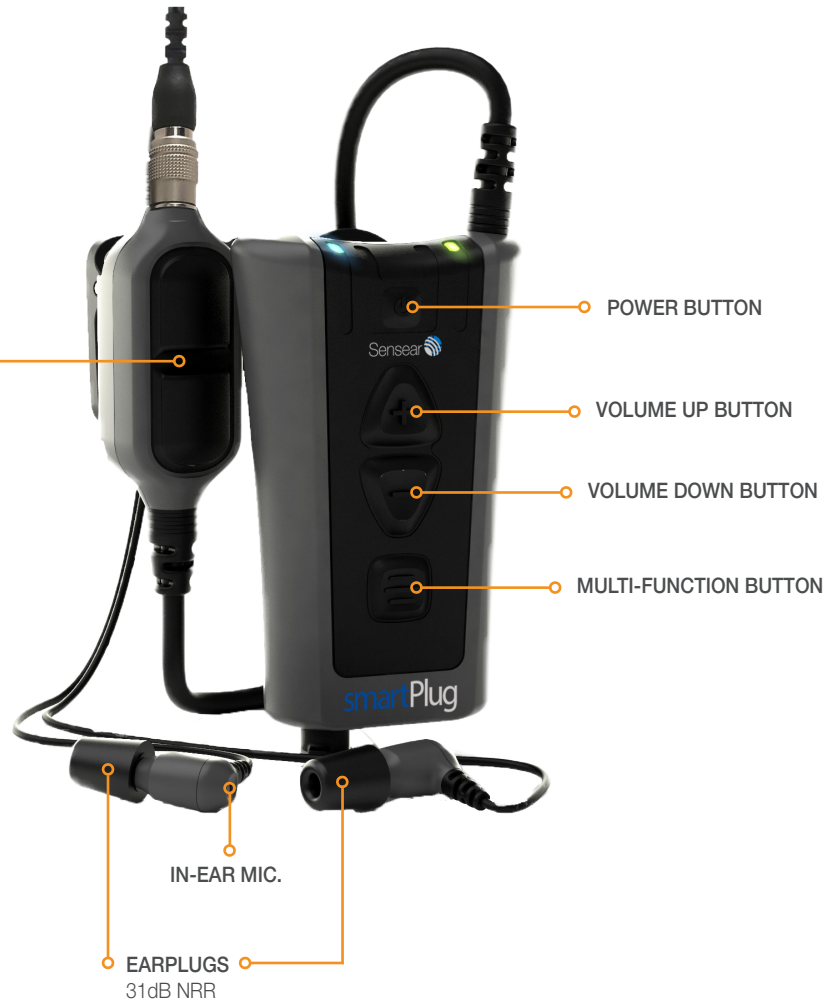
See more details at [sensear.com/sp1r](https://sensear.com/sp1r)

## smartPlug™: Noise Suppressing Earplugs for Industrial Environments

The smartPlug™ is a digital hearing protection in-ear-headset solution for use in some of the world's largest industries, where high-noise and extreme environments are part of the everyday challenges to communications and hearing protection. The smartPlug™ also comes equipped with Sensear's industry-leading SENS® Technology that enhances speech and suppresses noise so users can communicate safely and effectively while maintaining 360° situational awareness. The smartPlug™ features an in-ear microphone allowing users to clearly pick up speech and transmit through existing communication systems by two-way radio, Bluetooth®, or short-range connections.

### PTT BUTTON

Allows instantaneous communication switching your device from voice receive mode to voice transmission mode with a push and hold of the button.



| PART NUMBER  | DESCRIPTION   | NRR  | SNR  | SLC80         |
|--------------|---|------|------|---------------|
| SMPLUG030001 | Bluetooth®, Two-Way Radio, and Short-Range Earplugs with In-Ear Mic | 31dB | 38dB | 28dB, Class 5 |

| KEY FEATURES          |  |
|-----------------------|--|
| Speech Enhancement    | Face-to-Face Communication                     |
| Situational Awareness | 360°   |
| Volume Limiter        | 82 dB(A)                                       |
| Two-Way Radio         | Bluetooth® or Radio Cable with PTT             |
| Bluetooth®            | Bluetooth® 3.0, 49 feet                        |
| Short-Range           | Up to 8 Programmable FM Channels, up to 150 ft |
| IP Rating             | IP67   |

See more details at [sensear.com/products/earplugs/smartplug](https://sensear.com/products/earplugs/smartplug)

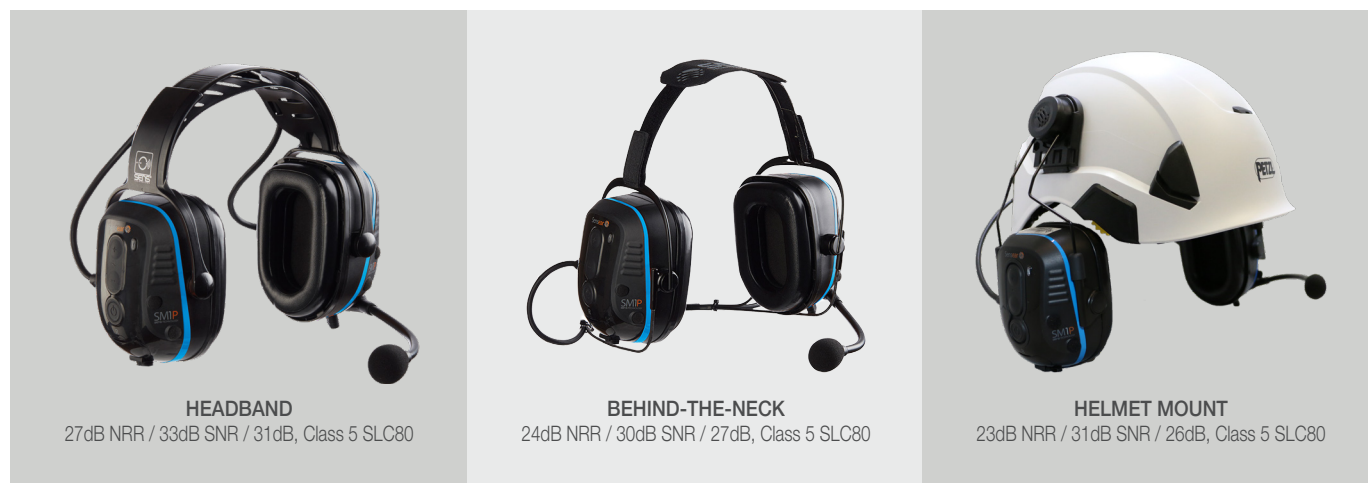
### What type of communication headset do you need?



### Feature Comparison Matrix:

| FEATURES         | SM1R | SM1R-IS | SMARTMUFF | SM1B | SM1P | SM1P-IS | SM1P-EX | SM1P-ISDP | SM1P-EXDP |
|------------------|------|---------|-----------|------|------|---------|---------|-----------|-----------|
| SENS® Technology | •    | •       | •         | •    | •    | •       | •       | •         | •         |
| 360° Awareness   | •    | •       | •         | •    | •    | •       | •       | •         | •         |
| Volume Limiter   | •    | •       | •         | •    | •    | •       | •       | •         | •         |
| Two-Way Radio    | •    | •       |           | •    | •    | •       | •       | •         | •         |
| Bluetooth®       |      |         |           |      | •    | •       | •       | •         | •         |
| Short-Range      |      |         |           |      | •    | •       | •       | •         | •         |
| Intrinsic Safety |      | •       |           |      |      | •       | •       | •         | •         |
| VOX-Capable      | •    | •       |           | •    | •    | •       | •       | •         | •         |
| Dual Protection  |      |         |           |      |      |         |         | •         | •         |
| Radio-Powered    | •    | •       |           |      |      |         |         |           |           |
| Battery-Powered  |      |         | •         | •    | •    | •       | •       | •         | •         |

## What headset style do you need?



**HEADBAND**  
27dB NRR / 33dB SNR / 31dB, Class 5 SLC80

**BEHIND-THE-NECK**  
24dB NRR / 30dB SNR / 27dB, Class 5 SLC80

**HELMET MOUNT**  
23dB NRR / 31dB SNR / 26dB, Class 5 SLC80

## Sensear Headset Part Number Index:

| PRODUCT NAME | PART NUMBER | HEADSET STYLE   | COLOR        | NRR  | SNR  | SLC80         |
|--------------|-------------|-----------------|--------------|------|------|---------------|
| SM1R         | SM1RB001    | Headband        | Black/Grey   | 27dB | 33dB | 31dB, Class 5 |
|              | SM1RE001    | Behind-the-Neck | Black/Grey   | 24dB | 30dB | 27dB, Class 5 |
|              | SM1RH001    | Helmet Mount    | Black/Grey   | 23dB | 31dB | 26dB, Class 5 |
| SM1R-IS      | SM1RISB1    | Headband        | Black/Red    | 27dB | 33dB | 31dB, Class 5 |
|              | SM1RISE1    | Behind-the-Neck | Black/Red    | 24dB | 30dB | 27dB, Class 5 |
|              | SM1RISH1    | Helmet Mount    | Black/Red    | 23dB | 31dB | 26dB, Class 5 |
| SM1B         | SM1BB002    | Headband        | Black/Yellow | 27dB | 33dB | 31dB, Class 5 |
|              | SM1BE002    | Behind-the-Neck | Black/Yellow | 24dB | 30dB | 27dB, Class 5 |
|              | SM1BH002    | Helmet Mount    | Black/Yellow | 23dB | 31dB | 26dB, Class 5 |
| SM1P         | SM1PB002    | Headband        | Black/Blue   | 27dB | 33dB | 31dB, Class 5 |
|              | SM1PE002    | Behind-the-Neck | Black/Blue   | 24dB | 30dB | 27dB, Class 5 |
|              | SM1PH002    | Helmet Mount    | Black/Blue   | 23dB | 31dB | 26dB, Class 5 |
| SM1P-IS      | SM1PBIS02   | Headband        | Black/Red    | 27dB | 33dB | 31dB, Class 5 |
|              | SM1PEIS02   | Behind-the-Neck | Black/Red    | 24dB | 30dB | 27dB, Class 5 |
|              | SM1PHIS02   | Helmet Mount    | Black/Red    | 23dB | 31dB | 26dB, Class 5 |
| SM1P-ISDP    | SM1PBISDP02 | Headband        | Black/Red    | 36dB | 37dB | 32dB, Class 5 |
|              | SM1PEISDP02 | Behind-the-Neck | Black/Red    | 36dB | 38dB | 33dB, Class 5 |
|              | SM1PHISDP02 | Helmet Mount    | Black/Red    | 36dB | 38dB | 30dB, Class 5 |
| SM1P-Ex      | SM1PBEX02   | Headband        | Red/Grey     | 27dB | 33dB | 31dB, Class 5 |
|              | SM1PEEX02   | Behind-the-Neck | Red/Grey     | 24dB | 30dB | 27dB, Class 5 |
|              | SM1PHEX02   | Helmet Mount    | Red/Grey     | 23dB | 31dB | 26dB, Class 5 |



| PRODUCT NAME                       | PART NUMBER | HEADSET STYLE   | COLOR        | NRR  | SNR  | SLC80         |
|------------------------------------|-------------|-----------------|--------------|------|------|---------------|
| SM1P-ExDP                          | SM1PBEXDP02 | Headband        | Red/Grey     | 36dB | 37dB | 32dB, Class 5 |
|                                    | SM1PEEXDP02 | Behind-the-Neck | Red/Grey     | 36dB | 38dB | 33dB, Class 5 |
|                                    | SM1PHEXDP02 | Helmet Mount    | Red/Grey     | 36dB | 38dB | 30dB, Class 5 |
| SmartGroup Leader                  | SM1PBT02    | Headband        | Black/Orange | 27dB | 33dB | 31dB, Class 5 |
|                                    | SM1PET02    | Behind-the-Neck | Black/Orange | 24dB | 30dB | 27dB, Class 5 |
|                                    | SM1PHT02    | Helmet Mount    | Black/Orange | 23dB | 31dB | 26dB, Class 5 |
| SmartGroup Student                 | SM1PBS02    | Headband        | Black/Green  | 27dB | 33dB | 31dB, Class 5 |
|                                    | SM1PES02    | Behind-the-Neck | Black/Green  | 24dB | 30dB | 27dB, Class 5 |
|                                    | SM1PHS02    | Helmet Mount    | Black/Green  | 23dB | 31dB | 26dB, Class 5 |
| SmartGroup - Both Transmit/Receive | SM1PBSG02   | Headband        | Black/Blue   | 27dB | 33dB | 31dB, Class 5 |
|                                    | SM1PESG02   | Behind-the-Neck | Black/Blue   | 24dB | 30dB | 27dB, Class 5 |
|                                    | SM1PHSG02   | Helmet Mount    | Black/Blue   | 23dB | 31dB | 26dB, Class 5 |
| smartMuff                          | SM1PBS02    | Headband        | Black/Green  | 27dB | 33dB | 31dB, Class 5 |
|                                    | SM1PES02    | Behind-the-Neck | Black/Green  | 24dB | 30dB | 27dB, Class 5 |
|                                    | SM1PHS02    | Helmet Mount    | Black/Green  | 23dB | 31dB | 26dB, Class 5 |

## SM1R: The Perfect Complement to Radios in High-Noise Environments

The SM1R is built specifically to enhance two-way radio communication in high-noise environments. The headset is unique from the rest of Sensear’s headset portfolio in that it contains no battery and instead is powered by the radio, making the unit lighter and more comfortable for the user. Similar to the rest of Sensear’s portfolio, it pairs Sensear’s patented SENS® Technology and a noise-canceling boom mic to allow users in high-noise environments to communicate either via face-to-face or two-way radios while maintaining 360° audible awareness of their surroundings and protecting their hearing.



### SM1R-IS: A Radio-Powered Two-Way Radio Headset for Hazardous Locations

TIA-4950-A, CSA C22.2 No. 157.92, & UL 913 5th Edition with a hazardous location rating of Class I, II, III, Division 1 & 2, Groups A - G, T5 -25°C to +60°C, T3C -25°C to +60°C



| PART NUMBER | DESCRIPTION  | NRR  | SNR  | SLC80         |
|-------------|--|------|------|---------------|
| SM1RB001    | Two-Way Radio Headband Headset                           | 27dB | 33dB | 31dB, Class 5 |
| SM1RE001    | Two-Way Radio Behind-the-Neck Headset                    | 24dB | 30dB | 27dB, Class 5 |
| SM1RH001    | Two-Way Radio Helmet Mount Headset                       | 23dB | 31dB | 26dB, Class 5 |
| SM1RISB1    | Hazardous Location Two-Way Radio Headband Headset        | 27dB | 33dB | 31dB, Class 5 |
| SM1RISE1    | Hazardous Location Two-Way Radio Behind-the-Neck Headset | 24dB | 30dB | 27dB, Class 5 |
| SM1RISH1    | Hazardous Location Two-Way Radio Helmet Mount Headset    | 23dB | 31dB | 26dB, Class 5 |

| KEY FEATURES          |  |
|-----------------------|--|
| Speech Enhancement    | Face-to-Face Communication             |
| Situational Awareness | 360°                                   |
| Volume Limiter        | 82 dB(A)                               |
| Two-Way Radio         | Radio Cable with PTT                   |
| Intrinsic Safety      | UL, CSA, TIA                           |
| Voice transmission    | Noise Cancelling Boom Mic, VOX-Capable |
| IP Rating             | IP54                                   |


See more details at [sensear.com/products/headsets/sm1r](https://sensear.com/products/headsets/sm1r)

## smartMuff: Hearing Protection, Communication, and Safety Headset

The smartMuff serves three purposes: hearing protection up to 27dB NRR, enhanced speech communication, and 360° situational alertness. With the smartMuff, users will protect their ears and hear their peers. This headset has several applications, including recreation (ATVs, helicopter rides, gun ranges, etc.), lawn service/maintenance (listen to FM/AM radio), and workshops (metal/woodworking).



| PART NUMBER | DESCRIPTION  | NRR  | SNR  | SLC80         | KEY FEATURES          |  |
|-------------|--|------|------|---------------|-----------------------|--|
| SM1PBS02    | Face-to-Face Communication Headband Headset        | 27dB | 33dB | 31dB, Class 5 | Speech Enhancement    | Face-to-Face Communication                     |
| SM1PES02    | Face-to-Face Communication Behind-the-Neck Headset | 24dB | 30dB | 27dB, Class 5 | Situational Awareness | 360°   |
| SM1PHS02    | Face-to-Face Communication Helmet Mount Headset    | 23dB | 31dB | 26dB, Class 5 | Volume Limiter        | 82 dB(A)                                       |
|             |  |      |      |               | Short-Range           | Up to 8 Programmable FM Channels, up to 150 ft |
|             |  |      |      |               | Voice transmission    | Face-to-Face via SENS® Mics                    |
|             |  |      |      |               | IP Rating             | IP54   |

 See more details at [sensear.com/products/headsets/smart-earmuff](https://sensear.com/products/headsets/smart-earmuff)



## SM1P: A Versatile Solution for Safe Communication in Noisy Workplaces

The SM1P elevates Sensear’s portfolio of smart headsets by providing features and benefits to improve safety, reliability, and efficiency. This industrial headset offers a robust design adhering to higher noise reduction standards of up to 27dB NRR. Its Bluetooth® module allows users to connect to cell phones, tablets, and laptops to promote effective communication without leaving the work environment. The headset uses Sensear’s SENS® Technology to enhance speech and suppress noise, while the noise-canceling boom mic filters out background noises so that only speech is transmitted through the microphone. The cable connection at the ear cup allows you to use it as a wired headset along with Bluetooth® and short-range or unplug the cable and use it as a completely wireless headset via Bluetooth® and short-range.



### SM1B: A Battery-Powered Two-Way Radio Headset

The SM1B two-way radio headset offers advanced connectivity and superior performance, building on the SM1R model to support a wider range of radios globally. This makes the SM1B a top choice for industries that require reliable and effective communication solutions for their workforce.



| PART NUMBER | DESCRIPTION  | NRR  | SNR  | SLC80         |
|-------------|--|------|------|---------------|
| SM1PB002    | Bluetooth®, Two-Way Radio, and Short-Range Headband Headset        | 27dB | 33dB | 31dB, Class 5 |
| SM1PE002    | Bluetooth®, Two-Way Radio, and Short-Range Behind-the-Neck Headset | 24dB | 30dB | 27dB, Class 5 |
| SM1PH002    | Bluetooth®, Two-Way Radio, and Short-Range Helmet Mount Headset    | 23dB | 31dB | 26dB, Class 5 |
| SM1BB002    | Battery-Powered Two-Way Radio Headband Headset                     | 27dB | 33dB | 31dB, Class 5 |
| SM1BE002    | Battery-Powered Two-Way Radio Behind-the-Neck Headset              | 24dB | 30dB | 27dB, Class 5 |
| SM1BH002    | Battery-Powered Two-Way Radio Helmet Mount Headset                 | 23dB | 31dB | 26dB, Class 5 |

| KEY FEATURES          |  |
|-----------------------|--|
| Speech Enhancement    | Face-to-Face Communication                     |
| Situational Awareness | 360°   |
| Volume Limiter        | 82 dB(A)                                       |
| Two-Way Radio         | Bluetooth® or Radio Cable with PTT             |
| Bluetooth®            | Bluetooth® 3.0, 49 feet                        |
| Short-Range           | Up to 8 Programmable FM Channels, up to 150 ft |
| Voice transmission    | Noise Cancelling Boom Mic, VOX-Capable         |
| IP Rating             | IP54   |

See more details at [sensear.com/products/headsets/sm1b](https://sensear.com/products/headsets/sm1b)

## SM1P-IS: A Versatile Solution for Safe Communication in Hazardous Locations

The SM1P-IS enables high noise two-way radio, Bluetooth®, short-range, and face-to-face communication in explosive environments. Users of the SM1P-IS benefit from clear communication using its wired or wireless capabilities as well as face-to-face communication while still protecting their hearing and remaining aware of the surrounding work environment. It's the perfect solution for your hazardous environments such as explosive chemicals and fuels as well as combustible powders. The SM1P-IS is the next-generation hazardous location headset. Customer focus in hazardous environments is at the forefront of this robust headset design to enhance safety and communications for improved efficiency in high-noise and hazardous workplace environments.



| PART NUMBER | DESCRIPTION   | NRR  | SNR  | SLC80         |
|-------------|---|------|------|---------------|
| SM1PBIS02   | Hazardous Location Bluetooth®, Two-Way Radio, and Short-Range Headband Headset        | 27dB | 33dB | 31dB, Class 5 |
| SM1PEIS02   | Hazardous Location Bluetooth®, Two-Way Radio, and Short-Range Behind-the-Neck Headset | 24dB | 30dB | 27dB, Class 5 |
| SM1PHIS02   | Hazardous Location Bluetooth®, Two-Way Radio, and Short-Range Helmet Mount Headset    | 23dB | 31dB | 26dB, Class 5 |

| KEY FEATURES          |  |
|-----------------------|--|
| Speech Enhancement    | Face-to-Face Communication                     |
| Situational Awareness | 360°   |
| Volume Limiter        | 82 dB(A)                                       |
| Two-Way Radio         | Bluetooth® or Radio Cable with PTT             |
| Bluetooth®            | Bluetooth® 3.0, 49 feet                        |
| Short-Range           | Up to 8 Programmable FM Channels, up to 150 ft |
| Intrinsic Safety      | UL, CSA, TIA                                   |
| Voice transmission    | Noise Cancelling Boom Mic, VOX-Capable         |
| IP Rating             | IP54   |

See more details at [sensear.com/products/headsets/sm1p](https://sensear.com/products/headsets/sm1p)

## SM1P-Ex: Hazardous Location ATEX Headset

The SM1P-Ex enables high noise two-way radio, Bluetooth®, headset-to-headset communication, and face-to-face communication in explosive environments that require ATEX and IECEx certification. Users of the SM1P-Ex benefit from clear communication using its wired or wireless capabilities as well as face-to-face communication while still protecting their hearing and remaining aware of the surrounding work environment. It's the perfect solution for your hazardous environments such as explosive chemicals and fuels as well as combustible powders.



| PART NUMBER | DESCRIPTION  | NRR  | SNR  | SLC80         |
|-------------|--|------|------|---------------|
| SM1PBEX02   | Hazardous Location (ATEX) Bluetooth®, Two-Way Radio, and Short-Range Headband Headset        | 27dB | 33dB | 31dB, Class 5 |
| SM1PEEX02   | Hazardous Location (ATEX) Bluetooth®, Two-Way Radio, and Short-Range Behind-the-Neck Headset | 24dB | 30dB | 27dB, Class 5 |
| SM1PHEX02   | Hazardous Location (ATEX) Bluetooth®, Two-Way Radio, and Short-Range Helmet Mount Headset    | 23dB | 31dB | 26dB, Class 5 |

| KEY FEATURES          |  |
|-----------------------|--|
| Speech Enhancement    | Face-to-Face Communication                     |
| Situational Awareness | 360°   |
| Volume Limiter        | 82 dB(A)                                       |
| Two-Way Radio         | Bluetooth® or Radio Cable with PTT             |
| Bluetooth®            | Bluetooth® 3.0, 49 feet                        |
| Short-Range           | Up to 8 Programmable FM Channels, up to 150 ft |
| Intrinsic Safety      | ATEX, IECEx                                    |
| Voice transmission    | Noise Cancelling Boom Mic, VOX-Capable         |
| IP Rating             | IP54   |

See more details at [sensear.com/products/headsets/sm1p-ex](https://sensear.com/products/headsets/sm1p-ex)

## SM1P-ISDP: Hazardous Location Dual Protection Headset for Communication in Extreme Noise Environments

Dual protection is often a requirement in many critical working areas where exposures may exceed 95 dB(A), Sensear has integrated our SENS<sup>®</sup> communication capabilities into an Intrinsically Safe Dual Protection headset (ISDP) so users can effectively communicate without removing their hearing protection in these extremely high-noise hazardous conditions. Based on the existing SM1P-IS headset, and incorporating our unique dual protection feature, the SM1P-ISDP fulfills the marketplace need for a high-performance hazardous location headset for extreme noise environments.



## SM1P-ExDP: Hazardous Location Dual Protection (ATEX) Headset for Communication in Extreme Noise Environments

Based on the existing SM1P-Ex headset and incorporating our unique dual protection feature, the SM1P-ExDP headset fills the marketplace need for a high-performing hazardous location headset for extreme noise environments that require ATEX and IECEx certifications.



| PART NUMBER | DESCRIPTION  | NRR  | SNR  | SLC80         |
|-------------|--|------|------|---------------|
| SM1PBISDP02 | Extreme Noise Bluetooth <sup>®</sup> , Two-Way Radio, and Short-Range Headband Headset               | 36dB | 37dB | 32dB, Class 5 |
| SM1PEISDP02 | Extreme Noise Bluetooth <sup>®</sup> , Two-Way Radio, and Short-Range Behind-the-Neck Headset        | 36dB | 38dB | 33dB, Class 5 |
| SM1PHISDP02 | Extreme Noise Bluetooth <sup>®</sup> , Two-Way Radio, and Short-Range Helmet Mount Headset           | 36dB | 38dB | 30dB, Class 5 |
| SM1PBEXDP02 | Extreme Noise (ATEX) Bluetooth <sup>®</sup> , Two-Way Radio, and Short-Range Headband Headset        | 36dB | 37B  | 32dB, Class 5 |
| SM1PEEXDP02 | Extreme Noise (ATEX) Bluetooth <sup>®</sup> , Two-Way Radio, and Short-Range Behind-the-Neck Headset | 36dB | 38dB | 33dB, Class 5 |
| SM1PHEXDP02 | Extreme Noise (ATEX) Bluetooth <sup>®</sup> , Two-Way Radio, and Short-Range Helmet Mount Headset    | 36dB | 38dB | 30dB, Class 5 |

| KEY FEATURES           |  |
|------------------------|--|
| Speech Enhancement     | Face-to-Face Communication                     |
| Situational Awareness  | 360°   |
| Volume Limiter         | 82 dB(A)                                       |
| Two-Way Radio          | Bluetooth <sup>®</sup> or Radio Cable with PTT |
| Bluetooth <sup>®</sup> | Bluetooth <sup>®</sup> 3.0, 49 feet            |
| Short-Range            | Up to 8 Programmable FM Channels, up to 150 ft |
| Intrinsic Safety       | UL, CSA, TIA, ATEX, IECEx                      |
| Voice transmission     | Noise Cancelling Boom Mic, VOX-Capable         |
| IP Rating              | IP54   |

See more details at [sensear.com/products/headsets/sm1p-isdp](https://sensear.com/products/headsets/sm1p-isdp) or [sensear.com/products/headsets/sm1p-exdp](https://sensear.com/products/headsets/sm1p-exdp)

## SmartGroup: Industrial Tours and Training Headsets

Sensear's SmartGroup products are an industry-leading solution for companies who conduct facility, factory, and plant tours or training sessions in noisy environments. Sensear's patented SENS® Technology enhances speech and suppresses background noise so users can communicate face-to-face safely and effectively in noisy environments. SmartGroup is a completely customizable build-your-own solution to meet your needs. Select the number of Leader headsets and the number of Student headsets for your needs. It's also highly recommended to purchase a programming tablet for further customization capabilities.



| PART NUMBER              | DESCRIPTION  | NRR  | SNR  | SLC80         |
|--------------------------|--|------|------|---------------|
| SM1PBS02                 | SmartGroup Listen-Only Student Headband Headset                                | 27dB | 33dB | 31dB, Class 5 |
| SM1PES02                 | SmartGroup Listen-Only Student Behind-the-Neck Headset                         | 24dB | 30dB | 27dB, Class 5 |
| SM1PHS02                 | SmartGroup Listen-Only Student Helmet Mount Headset                            | 23dB | 31dB | 26dB, Class 5 |
| SM1PBT02                 | SmartGroup Transmit-Only Leader Headband Headset                               | 27dB | 33dB | 31dB, Class 5 |
| SM1PET02                 | SmartGroup Transmit-Only Leader Behind-the-Neck Headset                        | 24dB | 30dB | 27dB, Class 5 |
| SM1PHT02                 | SmartGroup Transmit-Only Leader Helmet Mount Headset                           | 23dB | 31dB | 26dB, Class 5 |
| SM1PBSG02+<br>SRCK617002 | SmartGroup Transmit & Receive Leader Headband Headset with External PTT        | 27dB | 33dB | 31dB, Class 5 |
| SM1PESG02+<br>SRCK617002 | SmartGroup Transmit & Receive Leader Behind-the-Neck Headset with External PTT | 24dB | 30dB | 27dB, Class 5 |
| SM1PHSG02+<br>SRCK617002 | SmartGroup Transmit & Receive Leader Helmet Mount Headset with External PTT    | 23dB | 31dB | 26dB, Class 5 |
| SM1PBSG02                | SmartGroup Transmit & Receive Student Headband Headset                         | 27dB | 33dB | 31dB, Class 5 |
| SM1PESG02                | SmartGroup Transmit & Receive Student Behind-the-Neck Headset                  | 24dB | 30dB | 27dB, Class 5 |
| SM1PHSG02                | SmartGroup Transmit & Receive Student Helmet Mount Headset                     | 23dB | 31dB | 26dB, Class 5 |

| KEY FEATURES          |  |
|-----------------------|--|
| Speech Enhancement    | Face-to-Face Communication                     |
| Situational Awareness | 360°   |
| Volume Limiter        | 82 dB(A)                                       |
| Short-Range           | Up to 8 Programmable FM Channels, up to 150 ft |
| Voice transmission    | Noise Cancelling Boom Mic, VOX-Capable         |
| IP Rating             | IP54   |



### Cables to connect your Sensear product to your two-way radio or other communication devices.

Sensear’s headsets and earplugs can be connected to Motorola, Kenwood, Icom, Hytera, Harris, Tait, Sepura, Vertex, EF Johnson, and most other radio brands. Cables are sold separately from headsets and earplugs.

Because everyone has different needs based on their two-way radio brand and model, we have developed radio cable compatibility charts which are on our website (see link below). If you are unable to find the cable for your two-way radio or other communication device, don’t worry, additional cables are available upon request.

### Cables



For a full two-way radio compatibility tool and details visit:  
[sensear.com/two-way-radio-cable-compatibility-tool](https://sensear.com/two-way-radio-cable-compatibility-tool)

### smartPlug™ Accessories



FOAM EARTIPS



SP1R REPLACEMENT  
EARBUDS



SMARTPLUG™  
REPLACEMENT BELT CLIP

### Headset Accessories



PROGRAMMING TABLET



HEADSET CHARGING RACK



HEADBAND, BEHIND-THE-NECK, &  
HELMET MOUNT REPLACEMENTS




EARMUFF HYGIENE KITS



NOISE-CANCELING  
BOOM MICROPHONE



HEADSET HARD CASE

 For a full list of accessories, visit:  
[sensear.com/products/accessories-replacement-parts](https://sensear.com/products/accessories-replacement-parts)



# Check out our free headset selector tool

to find the most  
appropriate headset  
for your situation



To learn more, visit  
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