

# smartPlug R

Perfect Complement to Radios in High-Noise Environments

The smartPlug R is an in-ear hearing protection solution built specifically to enhance two-way radio communications in high-noise environments. The solution complements Sensear's SM1R series, as it is powered by your two-way radio, thus eliminating the need for a battery inside the unit. Similar to the rest of Sensear's portfolio, the smartPlug R pairs Sensear's patented SENS<sup>®</sup> technology and a noise-suppression microphone to allow users in high-noise environments to communicate either via face-to-face or via two-way radios, while maintaining 360° audible awareness of your surroundings and protecting your hearing.

Some notable enhancements to the smartPlug R include: a larger more ergonomic PTT module and a new detachable ear piece assembly. The smartPlug R is also available in an Intrinsically Safe version for use in Hazardous Environments.



360°  
Situational  
Awareness



Electronic  
Volume Limiter



Intrinsically  
Safe



Face to Face  
Communication



Protects  
Hearing



Two-way  
Radios



Speech Enhancement  
Noise Suppression



## FEATURES AND BENEFITS

- SENS<sup>®</sup> Technology
- Detachable ear piece assembly
- Disposable foam or silicone ear tip options for user comfort
- 82 dB(A) limited in-Ear and in-Ear voice pick up
- Clear two way radio communication in high-noise environments
- Connects to most industry leading 2-way radios via wired connection
- No battery, unit is powered by the radio
- Larger ergonomic Push To Talk module
- Ideal for use with respirators and breathing protection devices
- IP54 Rated
- Intrinsically safe smartPlug R (IS) certified to some of the most stringent intrinsic safety standards: 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, T4 -25°C to +60°C.



## Noise is Everywhere



### OIL & GAS



### MANUFACTURING



### MINING



### UTILITIES & POWER



### TRANSPORTATION

## Technical Specifications

### General

|                       |                                            |
|-----------------------|--------------------------------------------|
| Mounting Type         | In Ear                                     |
| Sensear Part Number   | smartPlug R or smartPlug R(IS)             |
| Weight                | 257.2g                                     |
| IP Rating             | IP54                                       |
| Operating Temperature | -25°C to +60°C (-4°F to 140°F)             |
| Feature Programming   | Mini USB connection to Sensear Application |

### Hearing Protection

|                |                         |
|----------------|-------------------------|
| Volume Limiter | 82 dB(A) [programmable] |
|----------------|-------------------------|

| Region       | Australia / NZ   | USA / Canada      | USA / Canada                | Europe  |
|--------------|------------------|-------------------|-----------------------------|---------|
| Standard     | AS/NZS 1270:2002 | ANSI S3.19 - 1974 | ANSI S12.6 - 2008, Method B | EN352-2 |
| Result       | SLC80            | NRR               | NRR[Sf]                     | SNR     |
| Foam Tip     | 28 dB, Class 5   | 31 dB             | 29-39 dB                    | 38 dB   |
| Silicone Tip | 19 dB, Class 3   | 24dB              | 21-35 dB                    | 32 dB   |

### Power

|                              |                                    |
|------------------------------|------------------------------------|
| Power Source                 | Two way radio (via accessory port) |
| SENS® Mode power consumption | 28mA                               |
| Quiet Mode power consumption | 20mA                               |

### Communication

|                         |                                                                                                                     |
|-------------------------|---------------------------------------------------------------------------------------------------------------------|
| Face-to-face SENS® Mode | 90 dBA                                                                                                              |
| Two-way Radio           | Wired radio cable with PTT module , Audio reverts back to radio when radio cable disconnected from Hirose connector |
| Voice transmission      | In-ear microphone (inside right earpiece)                                                                           |

### Your Local Dealer

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Hear Speech Stay Protected

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