

SP1R

Perfect Complement to Two-Way Radios in High-Noise Environments

The SP1R is a completely redesigned in-ear hearing protection and communication solution in a small and compact yet rugged package, built specifically to enhance two-way radio communications in high-noise environments and 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 SP1R pairs Sensear's patented **SENS**® technology and noise-suppression microphones 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.

The SP1R has the option of in-ear earplugs with an in-ear microphone (no boom mic) or a lightweight heavy-duty headset with in-ear plugs and an external noise cancelling boom microphone. The SP1R has an intrinsically safe option with TIA, CSA, and UL certifications.



360°
Situational
Awareness



Electronic
Volume Limiter



Speech Enhancement
Noise Suppression



Hearing
Protection



Two-Way Radio
Interface



Face-to-Face
Communication

FEATURES AND BENEFITS

- Small compact design built into larger ergonomic Push-to-Talk button
- Detachable ear piece assembly with two options (earplugs with in-ear mic or lightweight headset with earplugs and a noise-canceling boom mic)
- **SENS**® Technology (face-to-face communication and 360° situational awareness)
- Disposable foam or silicone ear tip options for user comfort
- 82 dB(A) in-ear volume limiter
- Clear two-way radio communication in high-noise environments
- Connects to many industry leading two-way radios via wired connection
- No battery, unit is powered by the two-way radio
- The in-ear mic option is ideal for use with respirators and breathing protection devices
- Up to 31dB NRR / 38dB SNR / 28dB, Class 5 SLC80
- Intrinsically Safe (IS) with TIA, CSA, and UL certifications



See what sets the SP1R apart!



Sensear 
Hear Speech Stay Protected

Headset with boom mic or Earplugs with in-ear mic



SP1RM02 / SP1RMIS02

SP1RE02 / SP1REIS02

Technical Specifications

General

Mounting Type	In-ear plugs or light weight heavy-duty headset with earplugs and boom mic
Model Options	SP1RE02 / SP1REIS02 (SP1R / SP1R-IS + in-ear mic plugs) SP1RM02 / SP1RMIS02 (SP1R / SP1R-IS + boom mic headset)
Weight	107.2g
IP Rating	IP67
Operating Tempera-	-25°C to +60°C (-13°F to 140°F)

Hearing Protection

Volume Limiter	82 dB(A) [programmable via Sensear tablet]
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Region	Australia / NZ	USA / Canada	Europe
Standard	AS/NZS 1270:2002	ANSI S3.19 - 1974	EN352-2
Result	SLC80	NRR	SNR
Foam Tip	28dB, Class 5	31dB	38dB

Power

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

Communication

Face-to-face SENS® Mode	SENS® voice pickup limit of 95 dB(A)
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) or boom microphone with headset option VOX capable with boom mic headset when connected to VOX enabled two-way radio* *Must be verified and tested for compatibility with the two-way radio

Intrinsic Safety for Hazardous Locations

SP1R-IS series:

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

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Noise is Everywhere



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