



SM1R-IS: The Perfect Complement to Radios in Hazardous Locations

The SM1R-IS is built specifically to enhance two-way radio communication in explosive 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.



See more details at sensear.com/products/headsets/sm1r



KEY FEATURES

| | |
|------------------------------|--|
| SENS [®] Technology | Enhances speech while suppressing background noise to a safe level |
| 360° Situational Awareness | Remain aware of surrounding noises and hazards |
| Hearing Protection | Up to 27dB NRR / 33dB SNR / 31dB, Class 5 SLC80 |
| Volume Limiter | Limit 'in-ear' exposure to 82 dB(A) |
| Communication | Two-Way Radio with PTT Cable |
| Voice Transmission | Noise Cancelling Boom Mic, VOX-Capable |
| Power | No battery in headset, unit is powered by the IS radio |
| Headsets Styles | Headband, Behind-the-Neck, Helmet Mount |
| IP Ratings | IP54 (headset), IP68 (boom mic) |
| Intrinsic Safety | TIA-4950-A, CSA C22.2 No. 157.92, & UL 913 5th Ed |

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|--|--|---|--|
|  360° SITUATIONAL AWARENESS |  ELECTRONIC VOLUME LIMITER |  PROTECTS HEARING |  ENHANCE SPEECH SUPPRESS NOISE |
|  FACE-TO-FACE COMMUNICATION |  TWO-WAY RADIO COMMUNICATION |  INTRINSIC SAFETY | |






Sensear in Action

Headset Styles



SM1RISB1 | HEADBAND
27dB NRR / 33dB SNR / 31dB, Class 5 SLC80



SM1RISE1 | BEHIND-THE-NECK
24dB NRR / 30dB SNR / 27dB, Class 5 SLC80



SM1RISH1 | HELMET MOUNT
23dB NRR / 31dB SNR / 26dB, Class 5 SLC80

Technical Specifications

| GENERAL | MOUNTING TYPE | PART NUMBER | WEIGHT | IP RATING | OPERATING TEMPERATURE |
|---------|-----------------------|-------------|-------------------|-----------|--------------------------------|
| | Headband (HB) | SM1RISB1 | 430 g (15.17 oz.) | IP54 | -20°C to +60°C (-4°F to 140°F) |
| | Behind-the-Neck (BTN) | SM1RISE1 | 400 g (14.11 oz.) | IP54 | -20°C to +60°C (-4°F to 140°F) |
| | Helmet Mount (HM) | SM1RISH1 | 430g (15.17 oz.) | IP54 | -20°C to +60°C (-4°F to 140°F) |

| HEARING PROTECTION | REGION | STANDARD | RESULT | HB | BTN | HM |
|---|----------------|-----------------|--------|---------------|---------------|---------------|
| Volume Limiter - 82 dB(A) [programmable] Only applicable when headset is powered on | Australia / NZ | AS/NZS 1270 | SLC80 | 31dB, Class 5 | 27dB, Class 5 | 26dB, Class 5 |
| | USA / Canada | ANSI S3.19 | NRR | 27dB | 24dB | 23dB |
| | Europe | EN352-1/EN352-3 | SNR | 33dB | 30dB | 31dB |

| POWER SOURCE | BATTERY TYPE |
|--------------|-----------------------------|
| | Powered by IS two-way radio |

IS Certification: 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

| COMMUNICATION | FACE-TO-FACE SENS® MODE | VOICE TRANSMISSION | TWO-WAY RADIO |
|---------------|--------------------------------------|---|---|
| | SENS® voice pickup limit of 95 dB(A) | Noise-canceling boom microphone. VOX capable when connected to VOX enabled two-way radio. (Must be verified and tested for compatibility with the two-way radio.) | 6-pin Hirose connector. Audio revert to radio when headset Hirose disconnected. (Dependent on radio type and compatible SRCK radio cable.) |

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