

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

The SM1P is a major advancement in Sensear's smart industrial headsets, designed to enhance safety, reliability, and efficiency in noisy industrial environments. It offers robust protection with a noise-reduction rating of up to 27dB NRR and versatile connectivity options, including both wired and wireless capabilities through Bluetooth® and Short-Range functionality. Featuring Sensear's proprietary SENS® Technology, the SM1P improves speech clarity while minimizing background noise and includes a noise-canceling boom microphone for clear communication. This innovative headset is poised to boost productivity and communication across industrial applications.

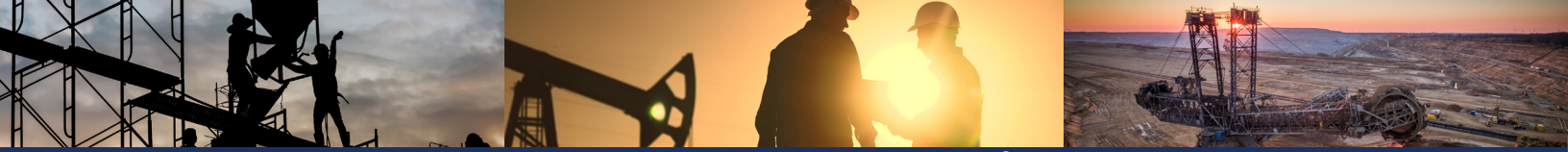
See more details at [sensear.com/products/headsets/sm1p](http://sensear.com/products/headsets/sm1p)



| 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)                                |
| Radio Communication        | Two-Way Radio via Bluetooth® or PTT Cable                          |
| Bluetooth® Communication   | Bluetooth® 3.0, 49 feet  |
| Short-Range Communication  | Up to 8 Programmable FM Channels, up to 150 ft                     |
| FM Radio                   | Listen to commercial FM Radio stations                             |
| Voice Transmission         | Noise Cancelling Boom Mic, VOX-Capable                             |
| Power                      | Upgraded 24-hour battery life for use in multiple shifts           |
| Headsets Styles            | Headband, Behind-the-Neck, Helmet Mount                            |
| IP Ratings                 | IP54 (headset), IP68 (boom mic)                                    |

|                            |                           |                             |                               |
|----------------------------|---------------------------|-----------------------------|-------------------------------|
|                            |                           |                             |                               |
| 360° SITUATIONAL AWARENESS | ELECTRONIC VOLUME LIMITER | PROTECTS HEARING            | ENHANCE SPEECH SUPPRESS NOISE |
|                            |                           |                             |                               |
| FACE-TO-FACE COMMUNICATION | BLUETOOTH® COMMUNICATION  | TWO-WAY RADIO COMMUNICATION | SHORT-RANGE COMMUNICATION     |





# Sensear in Action



## Headset Styles



**SM1PB002 | HEADBAND**  
27dB NRR / 33dB SNR / 31dB, Class 5 SLC80



**SM1PE002 | BEHIND-THE-NECK**  
24dB NRR / 30dB SNR / 27dB, Class 5 SLC80



**SM1PH002 | HELMET MOUNT**  
23dB NRR / 31dB SNR / 26dB, Class 5 SLC80

## Technical Specifications

| GENERAL | MOUNTING TYPE         | PART NUMBER | WEIGHT            | IP RATING | OPERATING TEMPERATURE          |
|---------|-----------------------|-------------|-------------------|-----------|--------------------------------|
|         | Headband (HB)         | SM1PB002    | 495 g (17.46 oz.) | IP54      | -20°C to +60°C (-4°F to 140°F) |
|         | Behind-the-Neck (BTN) | SM1PE002    | 428 g (15.09 oz.) | IP54      | -20°C to +60°C (-4°F to 140°F) |
|         | Helmet Mount (HM)     | SM1PH002    | 480g (16.93 oz.)  | IP54      | -20°C to +60°C (-4°F to 140°F) |

| HEARING PROTECTION  | REGION         | STANDARD        | RESULT | HB            | BTN           | HM            |
|---|----------------|-----------------|--------|---------------|---------------|---------------|
| <b>Volume Limiter</b> - 82 dB(A) [programmable]<br>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 | BATTERY TYPE                | BATTERY CAPACITY | OPERATING TIME                              | CHARGE TIME | CHARGING TEMPERATURE         |
|-------|-----------------------------|------------------|---|-------------|------------------------------|
|       | Rechargeable Li-ion Polymer | 2650 mAh         | 24 hours (wired) / 18 hours (Bluetooth®/SR) | 5 hours     | 0°C to +40°C (32°F to 104°F) |

| COMMUNICATION | FACE-TO-FACE SENS® MODE              | VOICE TRANSMISSION   | TWO-WAY RADIO   | BLUETOOTH®  |
|---------------|--------------------------------------|--|---|---|
|               | 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. Two-way radio audio through headset without headset battery. Audio revert to radio when headset Hirose disconnected. (Dependent on radio type and compatible SRCK radio cable.) | Bluetooth® 3.0: HFP (8 KHz and 16 KHz), HSP, A2DP. Up to 15 meters (49 ft). |

| SHORT-RANGE COMMUNICATION  | REGION | EIRP (UW) | STANDARDS       | FM FREQ. RANGE (MHZ) |
|--|--------|-----------|-----------------|----------------------|
| Half-duplex communications. Up to 8 programmable FM channels. Up to 50 meters (164 ft). FM Radio enable/disable option: Allows user to listen to commercial FM radio stations. | 1      | 8.02      | AS/NZS 4268     | 88.1 – 107.9         |
|  | 2      | 0.048     | EN301357-1      | 88.1 – 107.9         |
|  | 3      | 0.012     | FCC-15.239 & IC | 88.1 – 97.0          |

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