

## SM1P03: Sensear's Most Advanced Smart Bluetooth® Communication Headset

The new SM1P03 is a next-generation smart industrial headset designed to enhance safety, reliability, and communication in high-noise environments. Offering up to 27 dB of hearing protection and supporting both wired and wireless communication through two-way radio, Bluetooth®, and FM short-range, the SM1P03 now features an updated Bluetooth® 5.0 chip—enabling long-term sustainability in supply and greater flexibility for future interoperability and platform advancements. Equipped with Sensear's proprietary SENS® Technology and a noise-canceling boom microphone, the SM1P03 delivers clear, effective communication while reducing background noise, making it an ideal solution for evolving industrial demands.



See more details at  
[sensear.com/products/headsets/sm1p03](https://sensear.com/products/headsets/sm1p03)



### 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® Wireless Technology or PTT Cable      |
| Bluetooth® Communication   | Bluetooth® 5.0, 15 m                                               |
| Short-Range Communication  | Up to 8 Programmable FM Channels, up to 45 m                       |
| FM Radio                   | Listen to commercial FM Radio stations                             |
| Voice Transmission         | Noise-canceling 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)                                    |



**Sensear**  
SAFETY THAT SPEAKS VOLUMES

**SENS**  
TECHNOLOGY by Sensear



# Sensear in Action

## Headset Styles

**SM1PB003 | HEADBAND**  
27dB NRR / 33dB SNR / 31dB, Class 5 SLC80

**SM1PE003 | BEHIND-THE-NECK**  
24dB NRR / 30dB SNR / 27dB, Class 5 SLC80

**SM1PH003 | HELMET MOUNT**  
23dB NRR / 31dB SNR / 26dB, Class 5 SLC80

## Technical Specifications

| GENERAL | MOUNTING TYPE         | PART NUMBER | WEIGHT            | IP RATING | OPERATING TEMPERATURE          |  |
|---------|-----------------------|-------------|-------------------|-----------|--------------------------------|--|
|         | Headband (HB)         | SM1PB003    | 495 g (17.46 oz.) | IP54      | -20°C to +60°C (-4°F to 140°F) |  |
|         | Behind-the-Neck (BTN) | SM1PE003    | 428 g (15.09 oz.) | IP54      | -20°C to +60°C (-4°F to 140°F) |  |
|         | Helmet Mount (HM)     | SM1PH003    | 480 g (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          | 33dB          |

| 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® 5.0: 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 45 meters (150 ft).<br>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          |