

SM1P02 SERIES

The Versatile Solution for Safe Communication in Noisy Workplaces

The SM1P02 provides essential features and benefits to improve safety, reliability, and efficiency. Sensear's new industrial headset platform offers a robust design adhering to higher noise reduction standards. These headsets use Sensear's SENS® technology to enhance speech and suppress noise while the noise-canceling boom mic filters out background noises so that clear speech is transmitted through the microphone. SM1P's upgraded Bluetooth® module also allows for the streaming of audio to the headset. The new cable connection at ear cup allows you to use it as a wired headset along with Bluetooth and Short Range or unplug the cable and use it as a completely wireless headset via Bluetooth and Short Range.

Intrinsically Safe versions are available for use in Hazardous Environments



360°
Situational
Awareness



Protects Hearing



Intrinsic Safety



Electronic
Volume Limiter



Short Range
Communication



Cellular
Bluetooth



Two-way
Radios



Face to Face
Communication



Speech Enhancement
Noise Suppression



FEATURES AND BENEFITS

- Clear two-way radio communication in high-noise environments
- Bluetooth cellular connection for conversation and audio streaming
- Limit 'in-ear' exposure to 82 dB(A)
- Compatible with leading two-way radios via removable wired connection or Bluetooth
- Improved Short Range with VOX capabilities and additional channel banks
- FM Radio enable/disable: Allows users to listen to commercial FM Radio stations
- Upgraded battery life (up to 24 hours) for use in multiple shifts
- Available in headband, behind-the-neck, and helmet style
- SENS® Technology - remain aware of surrounding noises and hazards
- Enhances speech while suppressing background noise to a safe level
- Noise-canceling boom mic
- Intrinsically safe SM1PIS series certified to: 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 -20°C to +40°C, T3C -20°C to +50°C

Styles



Type	Non-IS Part #	IS Part #
Headband (HB)	SM1PB002	SM1PBIS02

Type	Non-IS Part #	IS Part #s
Behind-the-Neck (BTN)	SM1PE002	SM1PEIS02

Type	Non-IS Part #	IS Part #s
Helmet Mount (HM)	SM1PH002	SM1PHIS02

Technical Specifications

General

Headset Type	Headband (HB)	Behind-the-neck (BTN)	Helmet Mount (HM)
Sensear Part Number	SM1PB002 / SM1PBIS02	SM1PE002 / SM1PEIS02	SM1PH002 / SM1PHIS02
Weight	495 g (17.46 oz.)	428 g (15.09 oz.)	480g (16.93 oz.)
IP Rating	IP54		
Operating temperature	-20°C to +60°C (-4°F to 140°F)		

Hearing Protection

Volume limiter	82 dB(A) [programmable] – only applicable when headset is powered on		
Region	Australia / NZ	USA / Canada	Europe
Standard	AS/NZS 1270	ANSI S3.19	EN352-1/EN352-3
Result	SLC80	NRR	SNR
HB	31 dB, Class 5	27 dB	33 dB
BTN	27 dB, Class 5	24 dB	30 dB
HM	26 dB, Class 5	23 dB	31 dB

Power

	Non-Intrinsically Safe	Intrinsically Safe
Battery type	Rechargeable - lithium polymer	Rechargeable - lithium ion
Battery capacity	2650 mAh	2250 mAh
Operating time	24 hours	24 hours(wired) / 18 hours(Bluetooth/SR)
Charge time	5 hours	4 hours
Charging temperature	0°C to +40°C (32°F to 104°F)	0°C to +40°C (32°F to 104°F)

Communication

SENS® 360° Situational Awareness	95 dBA		
Voice Transmission	Boom microphone – noise canceling VOX capable when used in ShortRange mode for Headset to Headset communication VOX capable when connected to VOX enabled two-way radio.* *(Must be verified and tested for compatibility with the two-way radio).		
Wired Connectivity	6-pin Hirose connector	Two-way operation without power* (only applicable to SM1P non IS models with radio cable connection)	Audio revert to radio when headset Hirose connector disconnected*
Short Range	Half-duplex communications	Up to 8 programmable FM channels	Up to 50 meters (164 feet)
Bluetooth	Bluetooth® 3.0: HFP (8KHz and 16KHz), HSP, A2DP		15 meters (49 feet)

*dependent on radio type and compatible SRCK radio cable

Short Range

Region	EIRP (uW)	Standards	FM Freq. range (MHz)
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 RSS210	88.1 – 97.0

*FM Radio enable/disable option: Allows user to listen to commercial FM radio stations

Intrinsic Safety

SM1P02-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 -20°C to +40°C, T3C -20°C to +50°C

Noise is Everywhere



OIL & GAS/PETROCHEMICAL/ENERGY



CONSTRUCTION/HEAVY EQUIPMENT



MANUFACTURING/MINING (ABOVE GROUND)