

SM1B SERIES

The Versatile Solution for Safe Communication in Noisy Workplaces

The SM1B 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 only speech is transmitted through the microphone.



Speech Enhancement
Noise Suppression



Face-to-Face
Communication



360°
Situational
Awareness



Electronic
Volume Limiter



Protects Hearing



Two-Way
Radios



FEATURES AND BENEFITS

- Clear two-way radio communication in high-noise environment
- Limit 'in-ear' exposure to 82 dB(A)
- Upgraded 24-hour battery life for use in multiple shifts
- Available in Headband, Behind-the-Neck, and Helmet Mount style
- Up to 27dB NRR / 33dB SNR / 31dB, Class 5 SLC80
- SENS® Technology - remain aware of surrounding noises and hazards
- Enhances speech while suppressing background noise to a safe level
- Noise-canceling boom microphone



Experience SENS® Technology!



Sensear 
Hear Speech Stay Protected

SM1B Styles



Type	Non-IS Part #
Headband (HB)*	SM1BB002



Type	Non-IS Part #
Behind-the-Neck (BTN)*	SM1BE002



Type	Non-IS Part #
Helmet Mount (HM)*	SM1BH002

Technical Specifications

General

Mounting Type	Headband (HB)	Behind-the-Neck (BTN)	Helmet Mount (HM)
Sensear Part Number	SM1BB002	SM1BE002	SM1BH002
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
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Region	Australia / NZ	USA / Canada	Europe
Standard	AS/NZS 1270	ANSI S3.19	EN352-1/EN352-3
Result	SLC80	NRR	SNR
HB	31dB, Class 5	27dB	33dB
BTN	27dB, Class 5	24dB	30dB
HM	26dB, Class 5	23dB	31dB

Power

Battery type	Rechargeable - Li-ion Polymer
Battery capacity	2650 mAh
Operating time	24 hours
Charge time	5 hours
Charging temperature	0°C to +40°C (32°F to 104°F)

Communication

Face-to-Face SENS® Mode	SENS® voice pickup limit of 95 dB(A)		
Voice Transmission	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		
Wired Connectivity	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

Noise is Everywhere



MANUFACTURING



CONSTRUCTION/HEAVY EQUIPMENT



OIL & GAS/PETROCHEMICAL/ENERGY



MINING (ABOVE GROUND)

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