

SM1B: A Battery-Powered Two-Way Radio Headset

The SM1B two-way radio headset offers advanced connectivity and superior performance, building on the SM1R model to support a wider range of radios globally. It features a durable lithium-ion battery and SENS® Technology, enhancing safety and situational awareness in noisy industrial settings. This makes the SM1B a top choice for industries that require reliable and effective communication solutions for their workforce.

See more details at sensear.com/products/headsets/sm1b



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	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)

 <p>360° SITUATIONAL AWARENESS</p>	 <p>ELECTRONIC VOLUME LIMITER</p>	 <p>PROTECTS HEARING</p>
 <p>ENHANCE SPEECH SUPPRESS NOISE</p>	 <p>FACE-TO-FACE COMMUNICATION</p>	 <p>TWO-WAY RADIOS</p>





Sensear in Action



Headset Styles



SM1BB002 | HEADBAND
27dB NRR / 33dB SNR / 31dB, Class 5 SLC80



SM1BE002 | BEHIND-THE-NECK
24dB NRR / 30dB SNR / 27dB, Class 5 SLC80



SM1BH002 | HELMET MOUNT
23dB NRR / 31dB SNR / 26dB, Class 5 SLC80

Technical Specifications

GENERAL	MOUNTING TYPE	PART NUMBER	WEIGHT	IP RATING	OPERATING TEMPERATURE
	Headband (HB)	SM1BB002	495 g (17.46 oz.)	IP54	-20°C to +60°C (-4°F to 140°F)
	Behind-the-Neck (BTN)	SM1BE002	428 g (15.09 oz.)	IP54	-20°C to +60°C (-4°F to 140°F)
	Helmet Mount (HM)	SM1BH002	480g (16.93 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	BATTERY TYPE	BATTERY CAPACITY	OPERATING TIME	CHARGE TIME	CHARGING TEMPERATURE
	Rechargeable Li-ion Polymer	2650 mAh	24 hours	5 hours	0°C to +40°C (32°F to 104°F)

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. 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.)

Sensear Inc.
150 South Washington St
Suite C
Carpentersville, IL 60110
United States

Sensear Pty Ltd
4 Hehir Street
Belmont, WA 6104
Australia

