


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)

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





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	480 g (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	33dB

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.)

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