


SM1R-IS: The Perfect Complement to Radios in Hazardous Locations

The SM1R-IS is built specifically to enhance two-way radio communication in explosive environments. The headset is unique from the rest of Sensear's headset portfolio in that it contains no battery and instead is powered by the radio, making the unit lighter and more comfortable for the user. Similar to the rest of Sensear's portfolio, it pairs Sensear's patented SENS® Technology and a noise-canceling boom mic to allow users in high-noise environments to communicate either via face-to-face or two-way radios while maintaining 360° audible awareness of their surroundings and protecting their hearing.

 See more details at sensear.com/products/headsets/sm1r



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	No battery in headset, unit is powered by the IS radio
Headsets Styles	Headband, Behind-the-Neck, Helmet Mount
IP Ratings	IP54 (headset), IP68 (boom mic)
Intrinsic Safety	TIA-4950-A, CSA C22.2 No. 157.92, & UL 913 5th Ed







Sensear in Action



Headset Styles



SM1RISB1 | HEADBAND
27dB NRR / 33dB SNR / 31dB, Class 5 SLC80



SM1RISE1 | BEHIND-THE-NECK
24dB NRR / 30dB SNR / 27dB, Class 5 SLC80



SM1RISH1 | HELMET MOUNT
23dB NRR / 31dB SNR / 26dB, Class 5 SLC80

Technical Specifications

GENERAL	MOUNTING TYPE	PART NUMBER	WEIGHT	IP RATING	OPERATING TEMPERATURE
	Headband (HB)	SM1RISB1	430 g (15.17 oz.)	IP54	-20°C to +60°C (-4°F to 140°F)
	Behind-the-Neck (BTN)	SM1RISE1	400 g (14.11 oz.)	IP54	-20°C to +60°C (-4°F to 140°F)
	Helmet Mount (HM)	SM1RISH1	430g (15.17 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 SOURCE	BATTERY TYPE
	Powered by IS two-way radio

IS Certification: 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, T5 -25°C to +60°C, T3C -25°C to +60°C

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. 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

