

SM1R SERIES

The Versatile Solution for Safe Communication in Noisy Workplaces

The SM1R series is an industrial headset built specifically to enhance two-way radio communication in high-noise environments. The headset is unique from the rest of Sensear's portfolio in that it contains no battery and instead is powered by the two-way radio, making the unit lighter and more comfortable for the user. Similar to the rest of Sensear's portfolio, the headset pairs Sensear's patented SENS® technology and a noise-cancelling 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.

The SM1R-IS series is available as Intrinsically Safe versions for use in Hazardous Environments.



Speech Enhancement
Noise Suppression



Face to Face
Communication



360°
Situational
Awareness



Electronic
Volume Limiter



Protects Hearing



Two-way
Radios



Intrinsic Safety



FEATURES AND BENEFITS

- Clear two-way radio communication in high-noise environment
- Limit 'in-ear' exposure to 82 dB(A)
- Connects to all industry leading two-way radios via wired connection
- No battery in headset, unit is powered by the radio, making the headset lighter and more comfortable
- 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
- VOX capable
- Intrinsically safe SM1R-IS 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



SM1R Styles



Type	Non-IS Part #	IS Part #
Headband (HB)*	SM1RB001	SM1RISB1



Type	Non-IS Part #	IS Part #s
Behind-the-Neck (BTN)*	SM1RE001	SM1RISE1



Type	Non-IS Part #	IS Part #s
Helmet Mount (HM)*	SM1RH001	SM1RISH1

Technical Specifications

General

Mounting Type	Headband (HB)	Behind-the-neck (BTN)	Helmet Mount (HM)
Sensear Part Number	SM1RB001 SM1RISB1	SM1RE001 SM1RISE1	SM1RH001 SM1RISH1
Weight	430 g (15.17 oz.)	400 g (14.11 oz.)	430g (15.17 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 by the radio
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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	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
Power Source	powered by two-way radio	powered by IS two-way radio

Communication

SENS® 360° Situational Awareness	95 dBA		
Voice Transmission	Boom microphone – noise canceling. 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	Audio revert to radio when headset Hirose disconnected*	*Dependent on radio type and compatible SRCK radio cable

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Intrinsic Safety

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Noise is Everywhere



MANUFACTURING



CONSTRUCTION/HEAVY EQUIPMENT



OIL & GAS/PETROCHEMICAL/ENERGY



MINING (ABOVE GROUND)

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