



SM1P-IS: A Versatile Solution for Safe Communication in Hazardous Locations

The SM1P-IS enables high noise two-way radio, Bluetooth®, short-range, and face-to-face communication in explosive environments. Users of the SM1P-IS benefit from clear communication using its wired or wireless capabilities as well as face-to-face communication while still protecting their hearing and remaining aware of the surrounding work environment. It's the perfect solution for your hazardous environments such as explosive chemicals and fuels as well as combustible powders. The SM1P-IS is the next-generation hazardous location headset. Customer focus in hazardous environments is at the forefront of this robust headset design to enhance safety and communications for improved efficiency in high-noise and hazardous workplace environments.



See more details at sensear.com/products/headsets/sm1p-is



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 / 31 dB, Class 5 SLC80
Volume Limiter	Limit 'in-ear' exposure to 82 dB(A)
Radio Communication	Two-Way Radio via Bluetooth® Wireless Technology or PTT Cable
Bluetooth® Communication	Bluetooth® 3.0, 15 m
Short-Range Communication	Up to 8 Programmable FM Channels, up to 45 m
FM Radio	Listen to commercial FM Radio stations
Voice Transmission	Noise-canceling 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)
Intrinsic Safety	TIA-4950-A, CSA C22.2 No. 157.92, & UL 913 5th Ed

360° SITUATIONAL AWARENESS	ELECTRONIC VOLUME LIMITER	PROTECTS HEARING	ENHANCE SPEECH SUPPRESS NOISE
FACE-TO-FACE COMMUNICATION	BLUETOOTH® COMMUNICATION	TWO-WAY RADIO COMMUNICATION	SHORT-RANGE COMMUNICATION
	 Sensear <small>SAFETY THAT SPEAKS VOLUMES</small> SENS <small>TECHNOLOGY by Sensear</small>		
INTRINSIC SAFETY			





Sensear in Action



Headset Styles



SM1PBIS02 | HEADBAND
27dB NRR / 33dB SNR / 31dB, Class 5 SLC80



SM1PEIS02 | BEHIND-THE-NECK
24dB NRR / 30dB SNR / 27dB, Class 5 SLC80



SM1PHIS02 | HELMET MOUNT
23dB NRR / 31dB SNR / 26dB, Class 5 SLC80

Technical Specifications

GENERAL	MOUNTING TYPE	PART NUMBER	WEIGHT	IP RATING	OPERATING TEMPERATURE
	Headband (HB)	SM1PBIS02	495 g (17.46 oz.)	IP54	-20°C to +60°C (-4°F to 140°F)
	Behind-the-Neck (BTN)	SM1PEIS02	428 g (15.09 oz.)	IP54	-20°C to +60°C (-4°F to 140°F)
	Helmet Mount (HM)	SM1PHIS02	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 Lithium-ion	2250 mAh	24 hours (wired) / 18 hours (Bluetooth®/SR)	4 hours	0°C to +40°C (32°F to 104°F)

COMMUNICATION	FACE-TO-FACE SENS® MODE	VOICE TRANSMISSION	TWO-WAY RADIO	BLUETOOTH®
	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.)	Bluetooth® 3.0: HFP (8 KHz and 16 KHz), HSP, A2DP. Up to 15 meters (49 ft).

SHORT-RANGE COMMUNICATION	REGION	EIRP (UW)	STANDARDS	FM FREQ. RANGE (MHZ)
Half-duplex communications. Up to 8 programmable FM channels. Up to 45 meters (150 ft). FM Radio enable/disable option: Allows user to listen to commercial FM radio stations.	1	8.02	AS/NZS 4268	88.1 – 107.9
	2	0.048	EN301357-1	88.1 – 107.9
	3	0.012	FCC-15.239 & IC	88.1 – 97.0

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, T4 -20°C to +40°C, T3C -20°C to +50°C

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