

SM1P: A Versatile Solution for Safe Communication in Noisy Workplaces

The SM1P is a major advancement in Sensear's smart industrial headsets, designed to enhance safety, reliability, and efficiency in noisy industrial environments. It offers robust protection with a noise-reduction rating of up to 27dB NRR and versatile connectivity options, including both wired and wireless capabilities through Bluetooth® and Short-Range functionality. Featuring Sensear's proprietary SENS® Technology, the SM1P improves speech clarity while minimizing background noise and includes a noise-canceling boom microphone for clear communication. This innovative headset is poised to boost productivity and communication across industrial applications.

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



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)
Radio Communication	Two-Way Radio via Bluetooth® or PTT Cable
Bluetooth® Communication	Bluetooth® 3.0, 49 feet
Short-Range Communication	Up to 8 Programmable FM Channels, up to 150 ft
FM Radio	Listen to commercial FM Radio stations
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)






Sensear in Action



Headset Styles



SM1PB002 | HEADBAND
27dB NRR / 33dB SNR / 31dB, Class 5 SLC80



SM1PE002 | BEHIND-THE-NECK
24dB NRR / 30dB SNR / 27dB, Class 5 SLC80



SM1PH002 | HELMET MOUNT
23dB NRR / 31dB SNR / 26dB, Class 5 SLC80

Technical Specifications

GENERAL	MOUNTING TYPE	PART NUMBER	WEIGHT	IP RATING	OPERATING TEMPERATURE
	Headband (HB)	SM1PB002	495 g (17.46 oz.)	IP54	-20°C to +60°C (-4°F to 140°F)
	Behind-the-Neck (BTN)	SM1PE002	428 g (15.09 oz.)	IP54	-20°C to +60°C (-4°F to 140°F)
	Helmet Mount (HM)	SM1PH002	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 (wired) / 18 hours (Bluetooth®/SR)	5 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 50 meters (164 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

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

Sensear Pty Ltd
4 Hehir Street
Belmont, WA 6104
Australia

