Smart Hazardous Location Communication Headset | SM1P-Ex

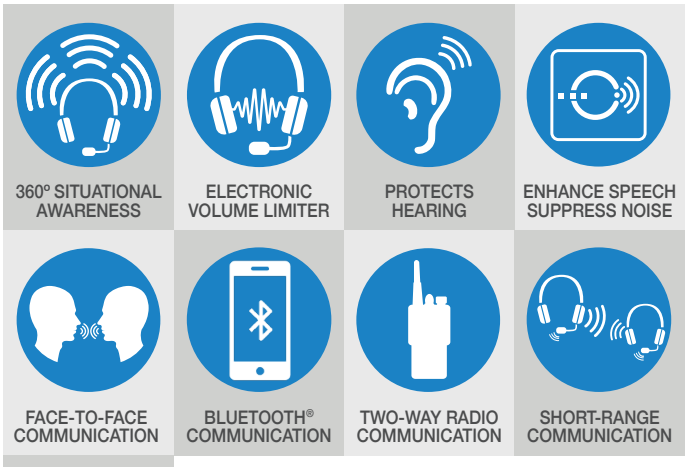
SM1P-Ex: Hazardous Location ATEX Headset

The SM1P-Ex enables high noise two-way radio, Bluetooth®, headset-to-headset communication, and face-to-face communication in explosive environments that require ATEX and IECEx certification. Users of the SM1P-Ex 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.

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



KEY FEATURES	
SENS® Technology	Enhances speech while suppressing background noise to a safe level
360º 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® 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	ATEX, IECEx, UL 913 8th, UL 60079-0, UL 60079-11, CSA 60079-0, CSA 60079-11



Sensear
SAFETY THAT SPEAKS VOLUMES

SENS
TECHNOLOGY by Sensear



Sensear in Action

Headset Styles



SM1PBEX02 | HEADBAND
27dB NRR / 33dB SNR / 31dB, Class 5 SLC80



SM1PEEX02 | BEHIND-THE-NECK
24dB NRR / 30dB SNR / 27dB, Class 5 SLC80



SM1PHEX02 | HELMET MOUNT
23dB NRR / 30dB SNR / 26dB, Class 5 SLC80

Technical Specifications

GENERAL	MOUNTING TYPE	PART NUMBER	WEIGHT	IP RATING	OPERATING TEMPERATURE
	Headband (HB)	SM1PBEX02	495 g (17.46 oz.)	IP54	-20°C to +60°C (-4°F to 140°F)
	Behind-the-Neck (BTN)	SM1PEEX02	428 g (15.09 oz.)	IP54	-20°C to +60°C (-4°F to 140°F)
	Helmet Mount (HM)	SM1PHEX02	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	30dB

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. Audio revert to radio when headset Hirose disconnected or headset battery dies (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

ATEX & IECEx certifications:
II 2G Ex ib IIC T4 Gb (-20°C ≤ Ta ≤ +40°C)
II 2D Ex ib IIIC T155°C Db (-20°C ≤ Ta ≤ +40°C)
I M2 Ex ib I Mb (-20°C ≤ Ta ≤ +60°C)

UL & CSA certifications:
Class I Division 1 Groups A-D, T4 (-20°C ≤ Ta ≤ +40°C); Class 1 Zone 1 AEx ib IIC T4 Gb (-20°C ≤ Ta ≤ +40°C)
Class II Zone 21 AEx ib IIIC T155°C Db (-20°C≤Ta≤+40°C)

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