32-EX SERIES

The Versatile Solution for Safe Communication in Hazardous and Noisy Workplaces

Be the productivity and safety leader in your industry with our unique and innovative SENS® Technology providing hearing protection, 360° situational awareness and total communication (face-to-face, two-way radio, Bluetooth and Short-Range Headset-to-headset). The SM1P02-Ex provides essential features and benefits to improve safety, reliability, and efficiency in high noise and hazardous work environments. These headsets use Sensear's SENS® technology to enhance speech and suppress noise while the noise-canceling boom mic filters out background noise so that clear speech is transmitted through the microphone. SM1P02-Ex's upgraded Bluetooth® module also allows for the streaming of audio to the headset. The new cable connection at ear cup allows you to use it as a wired headset along with Bluetooth and Short Range or unplug the cable and use it as a completely wireless headset via Bluetooth and Short Range. The SM1P02-Ex series is Intrinsically Safe certified to ATEX and IECEx standards for use in Hazardous Environments



360° Situational **Awareness**



Electronic Volume Limiter



Cellular Bluetooth



Face to Face Communication



Speech Enhancement Noise Suppression

Protects Hearing



Short Range Communication



Two-way Radios



Intrinsic Safety



FEATURES AND BENEFITS

- Clear two-way radio communication in high-noise environments
- Compatible with leading two-way radios via removable wired connection or Bluetooth
- Bluetooth cellular connection for conversation and audio streaming (HFP, HSP and A2DP profiles)
- Improved Short Range with VOX capabilities and additional channel banks for headset-to-headset communications
- FM Radio enable/disable: Ability to listen to commercial FM Radio stations
- Upgraded battery life (up to 24 hours) for use in multiple shifts
- SENS® Technology remain aware of surrounding noises and hazards
- 360° situational awareness
- Enhances speech while suppressing background noise to a safe level
- Face-to-face communication in high noise
- Limit 'in-ear' exposure to 82 dB(A)
- Noise-canceling boom mic
- Available in headband, behind-the-neck, and helmet style
- NRR 23-27 dB / SNR 30-33 dB / SLC80 26-31 dB, Class 5.
- Intrinsically safe SM1P-Ex series ATEX & IECEx approved. Certified to: II 2G Ex ib IIC T4 Gb (-20°C \leq Ta \leq +40°C), II 2D Ex ib IIIC T155°C Db (-20°C \leq Ta \leq +40°C) | M1 Ex ia | Ma (-20°C \leq Ta \leq +60°C) and Class | Division 1 Groups A-D, T4 (-20°C \leq Ta \leq +40°C); Class 1 Zone 1 AEx ib T4 Gb (-20°C \leq Ta $\leq +40^{\circ}$ C); Class I Zone 21 AEx ib IIIC T155°C Db (-20°C \leq Ta $\leq +40^{\circ}$ C)
 - Intrinsically safe SM1P-Ex series UL & CSA approved. Certified to: Class I, II, III, Division 1 & 2 Groups A-G, T4 (-20°C \leq Ta \leq +40°C); T3C $(-20^{\circ}\text{C} \le \text{Ta} \le +50^{\circ}\text{C})$



Styles



Type: Headband (HB)
Wired/BT/SR Part # SM1PBEX02



Type: Behind-the-Neck (BTN)
Wired/BT/SR Part # SM1PEEX02



Intrinsic Safety

SM1P02-Ex series:

ATEX & IECEx:

II 2G Ex ib IIC T4 Gb (-20°C \leq Ta \leq +40°C) II 2D Ex ib IIIC T155°C Db (-20°C \leq Ta \leq +40°C) I M1 Ex ia I Ma (-20°C \leq Ta \leq +60°C)

Class I Division 1 Groups A-D, T4 (-20°C \leq Ta \leq +40°C); Class 1 Zone 1 AEx ib T4 Gb (-20°C \leq Ta \leq +40°C) Class I Zone 21 AEx ib IIIC T155°C Db (-20°C \leq Ta \leq +40°C)

UL 913 8th, UL 60079-0, UL 60079-11, CSA 60079-0, CSA 60079-11:

Class I, II, III, Division 1 & 2, Groups A - G, T4 (-20°C \leq Ta \leq +40°C); T3C (-20°C \leq Ta \leq +50°C)

Noise is Everywhere



OIL & GAS





Technical Specifications

General

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Headset Type	Headband (HB)	Behind-the-neck (BTN)	Helmet Mount (HM)
Sensear Part Number	SM1PBEX02	SM1PEEX02	SM1PHEX02
Weight	495 g (17.46 oz.)	428 g (15.09 oz.)	480g (16.93 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

Region	Australia / NZ	USA / Canada	Europe	
Standard	AS/NZS 1270	ANSI S3.19	EN352-1/EN352-3	
Result	SLC80	NRR	SNR	
НВ	31 dB, Class 5	27 dB	33 dB	
BTN	27 dB, Class 5	24 dB	30 dB	
НМ	26 dB, Class 5	23 dB	31 dB	

Power

	Intrinsically Safe
Battery type	Rechargeable - lithium ion
Battery capacity	2250 mAh
Operating time	24 hours(wired connection) / 18 hours(Wireless with Bluetooth/Short Range activated)
Charge time	4 hours
Charging temperature	0°C to +40°C (32°F to 104°F)

Communication

SENS® 360° Situational Awareness 95 dBA	Communication			
VOX capable when used in ShortRange mode for Headset to Headset communication 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 Short Range Half-duplex Up to 8 programmable FM Up to 50 meters (164 feet)		95 dBA		
Short Range Half-duplex Up to 8 programmable FM Up to 50 meters (164 feet)	Voice Transmission	VOX capable when used in ShortRange mode for Headset to Headset communication VOX capable when connected to VOX enabled two-way radio.*		
	Wired Connectivity	6-pin Hirose connector		
	Short Range	'		Up to 50 meters (164 feet)
Bluetooth Bluetooth® 3.0: HFP (8KHz and 16KHz), HSP, A2DP 15 meters (49 feet)	Bluetooth	, , ,		, ,

*dependent on radio type and compatible SRCK radio cable

Short Range

Region	EIRP (uW)	Standards	FM Freq. range (MHz)
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 RSS210	88.1 – 97.0

*FM Radio enable/disable option: Allows user to listen to commercial FM radio stations

Your Local Dealer

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