

Sensear Intrinsically Safe Smart Muff A Total High Noise Communication Solution



Speaker output
Limited to
82dB(A) in
the ear*

*When tested according to EN 352-4 below H, M and L criterion levels



SM1xIS Helmet mount



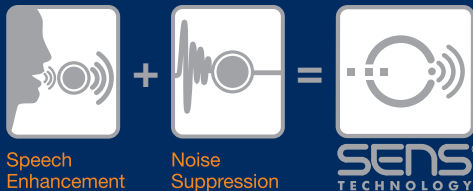
SM1xIS Around the neck

 **SM1xIS**
ADVANCED SENSEAR TECHNOLOGY

Face-to-face,
Two-way,
Bluetooth,
Short Range

Sensear 
Hear Speech Stay Protected

Hear Speech, Stay Protected with the Intrinsically Safe Smart Muff



Speech
Enhancement

Noise
Suppression

SENSEAR
TECHNOLOGY

Developed in close collaboration with some of the world's leading oil and gas companies, Sensear's IS Smart Muff has undergone rigorous testing in some of the most volatile environments. With the IS Smart Muff certified to IECEx standards and the ATEX 94/9/EC directive, Sensear's IS Smart Muff meets the demands of companies requiring an intrinsically safe total high noise communication solution.

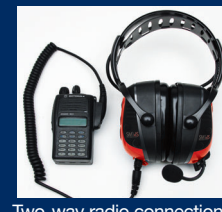
The IS Smart Muff delivers a total high noise communication solution, combined with world class hearing protection and the ability to have situational awareness.

And only Sensear devices are powered by the groundbreaking **SENSE™** (speech enhancement, noise suppression) technology that isolates and enhances speech while suppressing dangerous background noise.

Featuring a rugged design for heavy duty and general use in environments requiring intrinsically safe certification, the IS Smart Muff is a simple to use, extremely comfortable communication device that delivers face to face, two-way or Bluetooth® cell phone communication all without the need to remove hearing protection.

With Sensear's new IS Smart Muff, there's also no need to connect to other communication devices for short distance communication. The IS Smart Muff enables ear muff to ear muff communication in high noise environments up to 50 meters/yards and is perfect for workers who work in groups where it is critical to communicate within short distances.

Combining Bluetooth® technology with advanced **SENSE™** technology and a noise cancelling boom mic, the IS Smart Muff earmuffs offers one of the most advanced intrinsically safe hearing protection and communication devices available on the market today.



Two-way radio connection

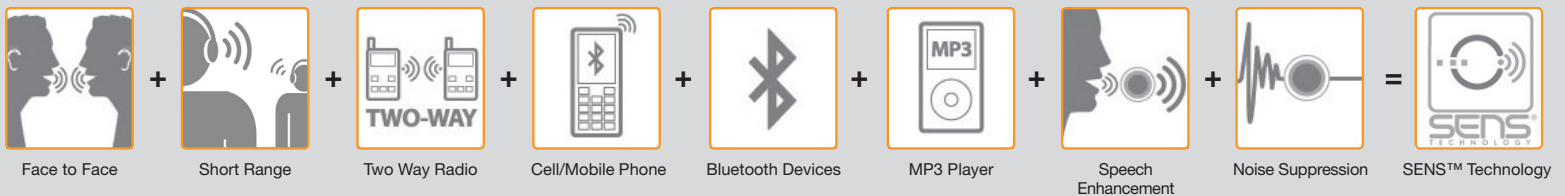


Sensear Intrinsically Safe Smart Muff

Smart Product Features



Smart Communication Features



Attenuation Data

SM1 Hearing protector CLASS 5 tested to AS/NZS 1270:2002. When Selected, used and maintained as specified in AS/NZS 1269, this protector may be used in noise up to 110dB(A) assuming an 85dB(A) criterion. A lower criterion may require a higher protector class.

Attenuation Data	SM, SM1, SM1x, SM1xSR, SM1xIS Headband Model							
F(Hz)	125	250	500	1000	2000	4000	8000	SLC ₉₀
Mean Attenuation (dB)	18.3	21.2	26.1	28.3	32.0	37.3	40.0	28dB
Standard Deviation (dB)	3.7	3.4	2.9	2.1	4.1	3.1	4.0	
Mean minus Standard Deviation (dB)	14.6	17.8	23.2	26.2	27.9	34.2	36.0	

ANSI S3.19 Attenuation Data (Standard Headband)	SM, SM1, SM1x, SM1xSR, SM1xIS Headband Model									
F(Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR
Mean Attenuation (dB)	21.1	25.5	29.9	32.9	34.7	41.2	39.7	41.1	41.8	25dB
Standard Deviation (dB)	4.1	3.0	3.2	2.8	3.8	3.1	3.4	3.4	2.4	
Real-Ear Protection (dB)	12.9	19.5	23.5	27.3	27.1	35.0	32.9	34.3	37.0	

Tested according to ANSI S3.19-1974

EN352 Attenuation Data (Standard Headband)	SM, SM1, SM1x, SM1xSR, SM1xIS Headband Model										
Frequency (Hz)	63	125	250	500	1000	2000	3150	4000	6300	8000	SNR
Mean Attenuation (dB)	19.1	20.0	23.1	26.9	27.6	30.6	37.8	38.7	39.5	39.8	29dB
St. dev. (dB)	4.3	3.3	2.6	2.7	2.2	3.8	2.7	3.2	3.4	2.9	
APV (84%)	14.8	16.7	20.5	24.2	25.4	26.8	35.1	35.5	36.1	36.9	

SM1 Helmet Hearing protector CLASS 5 tested to AS/NZS 1270:2002. When Selected, used and maintained as specified in AS/NZS 1269, this protector may be used in noise up to 110dB(A) assuming an 85dB(A) criterion. A lower criterion may require a higher protector class.

Attenuation Data	SM, SM1, SM1x, SM1xSR, SM1xIS Helmet Model							
F(Hz)	125	250	500	1000	2000	4000	8000	SLC ₉₀
Mean Attenuation (dB)	14.3	19.4	26.5	30.4	32.6	36.8	39.8	27dB
Standard Deviation (dB)	3.2	3.9	4.1	3.3	3.7	4.1	4.2	
Mean minus Standard Deviation (dB)	11.1	15.5	22.4	27.1	28.9	32.7	35.6	

ANSI S3.19 Attenuation Data (Helmet Mount)	SM, SM1, SM1x, SM1xSR, SM1xIS Helmet Model										
F(Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	
Mean Attenuation (dB)	20.0	24.2	28.2	30.7	32.6	37.2	38.4	38.7	38.7	23dB	
Standard Deviation (dB)	4.3	3.9	3.7	3.1	3.0	3.4	3.7	3.4	2.7		
Real-Ear Protection (dB)	11.4	16.4	20.8	24.5	26.6	30.4	31.0	32.1	33.3		

Tested according to ANSI S3.19-1974

EN352 Attenuation Data (Helmet Mount)	SM, SM1, SM1x, SM1xSR, SM1xIS Helmet Model										
Frequency (Hz)	63	125	250	500	1000	2000	3150	4000	6300	8000	SNR
Mean Attenuation (dB)	17.3	18.9	23.1	26.4	27.9	31.2	36.5	38.4	38.9	39.2	29dB
St. dev. (dB)	4.2	3.8	3.8	2.4	1.9	3.0	2.5	3.6	4.1	2.8	
APV (84%)	13.1	15.1	19.3	24.0	26.0	28.2	34.0	34.8	34.8	36.4	

- FM reception 88.0 to 108.0 MHz • FM SR Communication 88.1 to 97.0 MHz • Maximum RF transmitter signal strength 250 micro volts/meter at 3 meters (47CFR Part 15.239).
- Complies with FCC, ANSI, CE, Industry Canada, Australian and New Zealand regulatory standards.

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