

Sensear Smart Group Series

A Smart Solution for High Noise Tours and Training



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

*When tested according to EN 3524 below H, M and L criterion levels.

TeacherMuff

ADVANCED SENS TECHNOLOGY

Face-to-face, Two-way,
Bluetooth, Short Range
Transmit and Receive

Smart Group
Series is available in:
1 Teacher Muff and
5 Student or
10 Student Muffs



StudentMuff

ADVANCED SENS TECHNOLOGY

Face-to-face,
Short Range
Receive

Sensear 
Hear Speech Stay Protected

Hear Speech, Stay Protected in Tours and Training with the Smart Group Series



Conducting important Tours and Training exercises in high noise environments presents a big communication challenge. We can all relate to the teacher or guide yelling to be heard or the students or participants having to remove their hearing protection to hear what is being said.

Sensear now delivers a unique solution for Group Tours, VIP visits and Training in high noise environments. The Sensear Smart Group Series is designed to enable clear communication in high noise environments for groups of people where both communication and hearing protection is critical.

Incorporating Sensear's groundbreaking SENS™ (Speech Enhancement, Noise Suppression) technology the Smart Group Series allows the tour leader or trainer to safely and clearly communicate with all members, within a radius of up to 50 meters, in most noise levels up to 105dBA. And because Sensear is the only device to have SENS™ technology, tour members and trainees can also communicate face-to-face, within a radius of 1-3 yards, up to noise levels of 95dBA.

Sensear's SENS™ technology ensures impact, tonal and constant noise suppression with binaural capabilities. This ensures that background noise is lowered to safe level while retaining its natural qualities in most noisy environments.

Because the wearer retains awareness of their surroundings while being able to clearly hear the direction of all sound, including speech and alarms, the Smart Group Series is the safest High Noise Tour and Training Communication System.

The Smart Group is available with a 'Teacher' Smart Muff and 5 or 10 'Student' Smart Muffs.



Short Range Application



Smart Group Series 5



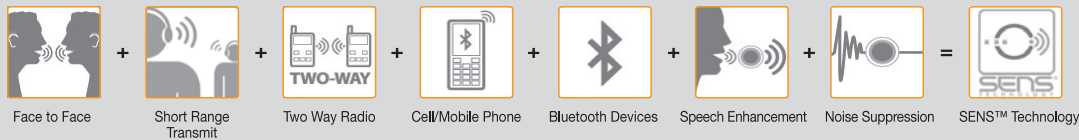
Face to Face Application

Sensear Smart Group Series.

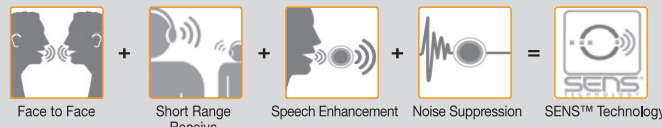
Smart Teacher Muff Product Features



Smart Teacher Muff Communication Features



Smart Student Muff Communication Features



Attenuation Data

Teacher and Student 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		Teacher and Student Hearing Protector 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)		Teacher and Student Hearing Protector 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)		Teacher and Student Hearing Protector 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	

• 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.

Teacher and Student Behind-the-head 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		Teacher and Student Behind-the-head Model							
F(Hz)		125	250	500	1000	2000	4000	8000	SLC ₉₀
Mean Attenuation (dB)		17.1	18.6	26.4	28.2	32.9	37.4	39.7	27dB
Standard Deviation (dB)		2.8	2.3	3.4	3.4	3.0	2.5	3.0	
Mean minus Standard Deviation (dB)		14.3	16.3	23.0	24.8	29.9	34.9	36.7	

Teacher and Student 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		Teacher and Student 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)		Teacher and Student 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)		Teacher and Student 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	36.9	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	

ANSI S3.19 Attenuation Data		Teacher and Student Behind-the-head Model									
F(Hz)		125	250	500	1000	2000	3150	4000	6300	8000	NRR
Mean Attenuation (dB)		19.9	21.7	26.5	30.6	32.9	39.2	37.8	38.6	39.5	23dB
Standard Deviation (dB)		4.4	2.9	2.6	3.0	2.7	3.2	3.2	3.4	2.0	

EN352 Attenuation Data		Teacher and Student Behind-the-head Model									
F(Hz)		125	250	500	1000	2000	3150	4000	6300	8000	SNR
Mean Attenuation (dB)		20.2	22.9	26.6	29.0	31.5	35.0	37.3	37.3	39.0	30dB
Standard Deviation (dB)		1.6	2.7	1.5	2.0	2.8	3.0	2.7	2.4	2.8	
APV (84%)		18.6	20.2	25.1	27.0	28.7	32.0	34.6	34.9	36.2	

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