

Sensear Smart Plug Range

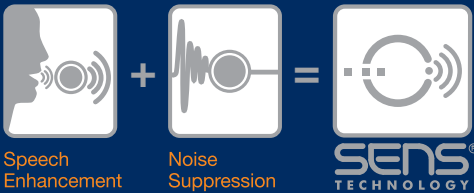
A Total High Noise Communication Solution



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

*when tested according to EN
352-4 below H, M and L
criteria levels

Hear Speech, Stay Protected with the Smart Plug Range



Sensear Smart Plug Range is the only communication and hearing protection system that includes the groundbreaking SENS™ technology which simultaneously isolates and enhances speech while suppressing harmful background noise.

As the world's first communication enabled electronic earplug, the Smart Plug Range provides a total communication solution for high noise environments from face-to-face, to short distance and long distance via two-way radio and Bluetooth cell phone.

The need to communicate effectively in high noise environments makes the Smart Plug Range an obvious choice. The SP, SP1, and SP1x communication devices have all the features expected

from premium hearing protectors with the addition of groundbreaking new technology that now delivers speech quality and functionality that sets a new benchmark for communication-enabled hearing protection.

SENS™ technology uniquely adapts to every high noise environment including impact, tonal and constant noise to deliver an effective communication option for users. Further, because Sensear lowers background noise to a safe level, users maintain situational awareness which is critical for safety.

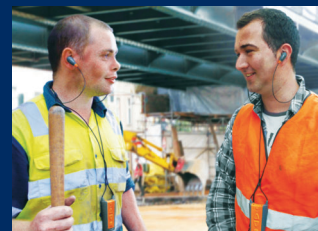
Featuring simple, discreet styling, the Sensear SP, SP1 and SP1x are perfect if you are looking for a lightweight solution to be worn in hot and hostile environments. The control unit can be easily worn around the neck, in a pocket or in a pouch and the ear plugs fit comfortably in the ear canal.

Combining Bluetooth technology with advanced SENS™ technology, the SP1x offers the highest level of voice communication available on the market, with optimized hearing and speech clarity when used with mobile phones. Offering all the features of the SP1x the SP1 is a premium product at a competitive price for those who do not require Bluetooth® functionality. If you simply require the ability to hear speech face to face then the SP is the right product to separate speech from background noise.

The Smart Plug Range allows users to hear speech and stay protected in high noise environments.



Two way radio connection



Sensear Smart Plug Range

Smart Product Features



- Wireless Bluetooth® connection to mobile phones (SP1x only)
- LED indicators for Bluetooth®, battery level and battery change status
- Compact
- Ruggedised for harsh environments
- Unique SENS™ technology enables clear audible conversation without removing earplugs, especially above 85dB(A)
- Soft over-moulded plastic in vivid colours for visibility and safety
- Simple buttons for tactile adjustment without having to look
- Lightweight
- Control Pod buttons easy to use even when wearing gloves
- Ideal for use in high noise environments where flexibility and aesthetics matter such as music venues, hospitality, sporting, major events
- Impact, Intermittent and Continuous Noise Suppression
- Lithium Polymer rechargeable battery and charger unit. Battery life minimum 12hrs+ continuous talk
- SENS™ technology makes boom microphones unnecessary
- Advanced earbud design compatible with wide range of custom-moulded earplugs
- Replaceable earplugs in varying sizes to fit wide range of ear cavities
- Binaural functionality enables user to tell the direction of all sounds, including speech and alarms
- Input for wired connection to MP3 and popular 2 way radios

Smart Communication Features



Face to Face



Two Way Radio



Cell/Mobile Phone (SP1x)



Bluetooth Devices (SP1x)



MP3 Player



Speech Enhancement



Noise Suppression



SENS™ Technology

Attenuation Data

SP1x with Foam Ear-tips: 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 SP1x with Foam ear-tips

F (Hz)	125	250	500	1000	2000	4000	8000	SLC ₉₀
Mean Attenuation (dB)	29.2	29.3	30.7	28.7	32.9	40.1	42.1	26dB
Standard Deviation (dB)	5.1	5.3	9.1	7.6	4.6	3.8	5.0	
Mean minus Standard Deviation (dB)	24.1	24.0	21.6	21.1	28.3	36.3	37.1	

SP1x with TPE (Silicon) Ear-tips: Hearing protector **CLASS 4** 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 105dB(A) assuming an 85dB(A) criterion. A lower criterion may require a higher protector class.

Attenuation Data SP1x with TPE (Silicon) ear-tips

F (Hz)	125	250	500	1000	2000	4000	8000	SLC ₉₀
Mean Attenuation (dB)	29.2	29.2	29.2	26.4	29.7	31.1	39.4	23dB
Standard Deviation (dB)	6.3	7.1	7.6	7.7	4.4	7.6	7.0	
Mean minus Standard Deviation (dB)	22.9	22.1	21.6	18.7	25.3	23.5	32.4	

Tested according to ANSI S3.19-1974

Attenuation Data

SP1x with Foam ear-tips

F (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR
Mean Attenuation (dB)	40.0	42.6	43.2	40.0	39.0	43.9	46.3	47.6	47.9	31dB
Standard Deviation (dB)	3.6	4.8	5.0	4.9	3.7	4.2	4.1	2.6	3.0	
Real-Ear Protection (dB)	32.8	33	33.2	30.2	31.6	35.5	38.1	42.4	41.9	

Attenuation Data

SP1x with TPE (Silicon) ear-tips

F (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR
Mean Attenuation (dB)	33.9	34.9	31.2	29.9	33.2	38.8	40.0	41.6	42.9	25dB
Standard Deviation (dB)	4.9	5.5	3.5	2.5	3.5	4.3	5.1	3.8	3.7	
Real-Ear Protection (dB)	24.1	23.9	24.2	24.9	26.2	30.2	29.8	34	35.5	

Tested according to EN 352

European PPE Certification

Ear-tip type	SNR	H	M	L
SP1x with Foam ear-tips	32dB	>120dB	119dB	106dB
SP1x with TPE (Silicon) ear-tips	30dB	>120dB	119dB	106dB

Replacement Parts & Accessories

Radio Connection Kits

SRCK0000	Radio Connection Kit - Waris Motorola
SRCK0001	Radio Connection Kit - Aoba/Plus Motorola
SRCK0002	Radio Connection Kit - MTS/XTS Motorola
SRCK0003	Radio Connection Kit - Kenwood
SRCK0004	Radio Connection Kit - ICOM
SRCK0005	Radio Connection Kit - Vertex

Replacement Ear Tips

SFT00100	Soft Foam Ear Tips - 10 Pairs (Grey)
SST00100	Silicon Ear Tips - 10 Pairs (Multi Salmon)
SFT00500	Soft Foam Ear Tips - 50 Pairs (Grey)
SST00500	Silicon Ear Tips - 50 Pairs (Multi Salmon)
SFT10000	Soft Foam Ear Tips - 1000 Pairs (Grey)
SST10000	Silicon Ear Tips - 1000 Pairs (Multi Salmon)

Accessories

SCAJ0003	SP1 Series Airline Adaptor Kit
SCAJ0000	Cable Spiral Audio 2.5mm to 3.5mm Jack 150mm
SLPWB000	Leather Pouch with Belt Clip to suit SP1x

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