



mino[®]

CENS[®]

Level Dependent Universal Electronic Hearing Protection



SNR 31dB

H=32 M=27 L=25

EN352-2:2002 EN352-7:2002

Tested by:
SATRA Ltd. Notified Body No. 0321



Noise Induced Hearing Loss



Approximately 30% of workers are exposed to hazardous levels of noise at some point during their working day and over 10% are exposed at all times.

The control of noise regulations 2005 states that anyone working in an environment where noise levels exceed 80dB is at risk of hearing damage and employers must provide their employees with hearing protectors on request.

If the noise level exceeds 85dB then employers must provide employees with hearing protectors and make sure they use them properly. There is also a protected maximum exposure limit of 87dB which must not be exceeded even when wearing protection.

It is also important to determine whether employees need to communicate verbally during the course of their work, and therefore a hearing protector should be provided that does not over-attenuate the speech frequencies.

Decibel Comparison Table

Threshold of hearing	0dB
Normal conversation	60-65dB
Jackhammer at 50'	95dB
Level at which sustained exposure may result in hearing loss	90 - 95dB
Hand drill	98dB
Motorcycle	100dB
Power saw at 3'	110dB
Pain begins	125dB
Loudest recommended exposure WITH hearing protection	140dB
Jet engine at 100'	140dB
12 gauge shotgun blast	165dB
Death of hearing tissue	180dB

Noise Induced Hearing Loss (NIHL) is one of the biggest occupational health problems facing us today. Whilst NIHL is permanent and irreversible, it is also 100% preventable. NIHL is a gradual process and often by the time we are aware of the problem it is too late. It can take 10-20 years for long-term damage to become apparent.

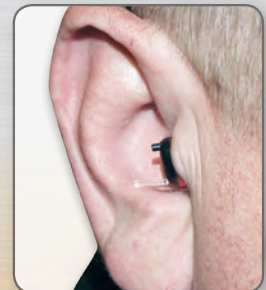
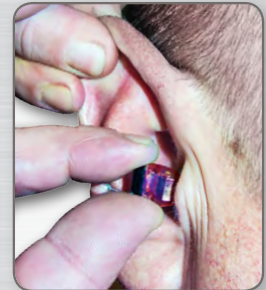
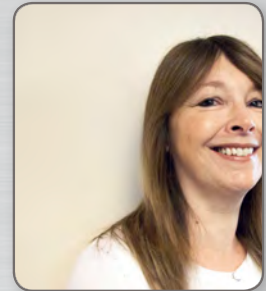


Introducing Mino CENS[®] Industrial



Mino CENS[®] are level dependent electronic ear plugs that provide an impressive 31dB SNR with the ability to enable the wearer to hear sounds around them. The state-of-the-art digital amplifier ensures that each user is never subjected to over attenuation and is as effective in a quieter environment as it is in the very noisiest environment.

- 31dB SNR
- Certified to EN352-2:2002 & EN352-7:2002
- Effectively Suppresses Dangerous Noise Levels
- 3 User-Selectable Amplification Levels
- Hear Conversation as Normal
- Unobtrusive, Comfortable Universal Fitting
- Colour Coded Earpieces (Red For Right, Blue For Left)



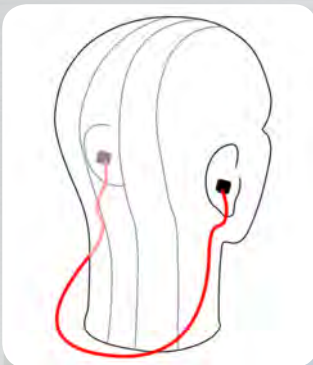
Supplied With

Everything you need to store, protect and maintain your Mino CENS®

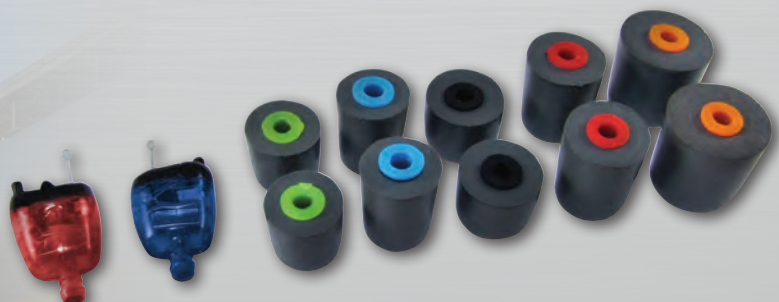


- 1 2 x Mino CENS® (L & R)
- 2 2 x Spare Wax Guards
- 3 1 x Brush With Magnet
- 4 6 x Size 10A Batteries
- 5 1 x Zip Pouch Storage Case
- 6 5 Pairs of Soft Foam Ear Tips (2 each size)
- 7 1 x User Manual
- 8 1 x Earpiece Cord
- 9 1 x Presentation Box

Earpiece Cord (8)



Mino CENS® are supplied with 5 different sized high quality soft foam ear tips, providing an effective and comfortable wearing experience. Mino CENS® tips are colour coded by size, so simply find the tip size that best fits, then reorder only the colour required.



Accessories



Replacement Soft Foam Tips (pairs)



Orange
14mm - Long
ACC102M-ORANGE



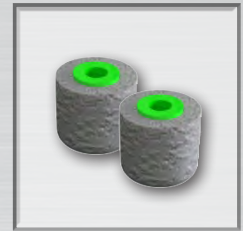
Red
12mm - Long
ACC102M-RED



Black
12mm - Short
ACC102M-BLACK

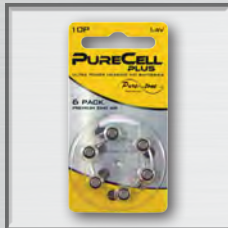


Blue
10.5mm - Long
ACC102M-BLUE



Green
10.5mm- Short
ACC102M-GREEN

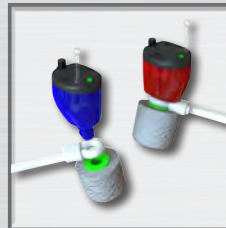
Replacement Accessories



PureCell Plus
10A Batteries
BAT13-PLUS



Micro PureGuard
Wax Guards
ACC314C-HF4 (Blue)
ACC314D-HF4 (Red)



Earpiece
Connecting Cord
ACC148G



Cleaning Brush
With Magnet
ACC117A



Zip Pouch With
Foam Insert
ACC113F-BC & ACC113T

Additional Accessories



PureClean
Cleaning Wipes
ACC448A



PureClean
Cleaning Spray
ACC448G



PureClean
Comfort Gel
ACC448B



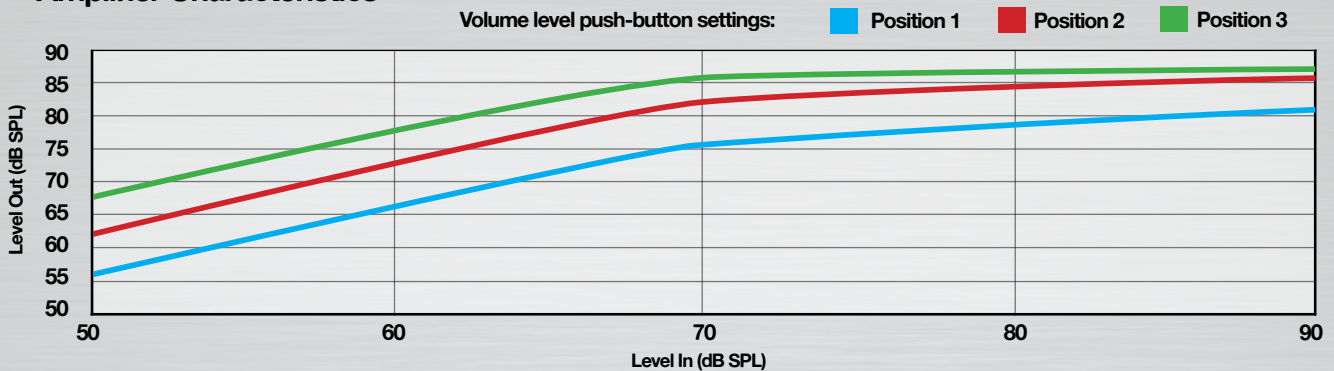
PerfectDry Lux
Disinfection & Hygiene
System
ACC430H

Mino CENS® accessories are available from Puretone retailers and www.puretone-ppe.com

Technical Information (EN352)



Amplifier Characteristics



Frequency response 200Hz to 8KHz. Total harmonic distortion 0.4%

Sound Attenuation

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mean Attenuation	26.1	27.5	27.8	31.4	34.3	34.9	41.4	44.4
Standard Deviation	5.6	5.5	4.9	5.9	8.2	4.5	3.6	5.0
Assumed Protection	20.5	22.0	22.9	25.5	26.0	30.4	37.7	39.4

H=32	M=27	L=25	SNR=31
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Criterion Levels

H	M	L
>99	>99	>99

SNR = Single Number Rating attenuation
 H = High frequency attenuation
 M = Medium frequency attenuation
 L = Low frequency attenuation

External Level dB (A)	59.5	64.5	69.5	74.5	79.5	84.5	89.5	94.5	99.6
High	68.6	70.1	69.6	69.2	69.2	70.3	71.4	72.0	73.2

External Level dB (A)	59.5	64.2	69.2	74.2	79.2	84.2	89.2	94.1	99.1
Medium	66.6	68.0	68.0	68.0	68.1	68.5	69.2	70.7	73.7

External Level dB (A)	59.5	64.5	69.5	74.5	79.5	84.4	89.3	94.2	99.0
Low	64.9	66.1	66.4	66.5	66.8	67.5	68.8	71.1	74.7

Tests carried out at maximum volume

EN352-2:2002 EN352-7:2002

Tested by: SATRA Ltd, Wyndham Way, Telford Way, Kettering, Northamptonshire, NN16 8SD. UK. (Notified Body No. 0321).

Further information can be obtained from Puretone Ltd, 9-10 Henley Business Park, Trident Close, Medway City Estate, Rochester, Kent. ME2 4FR. UK.

Other PPE Products From Puretone

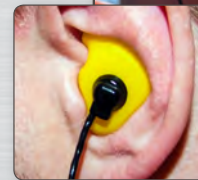


PROTECThear Custom-Made, Filtered Ear Plugs

PROTECThear inserts are custom-moulded soft silicone earpieces, individually crafted using formulated medical-grade silicone, to offer the highest degree of comfort whilst providing a highly effective acoustic barrier.

PROTECThear ear plugs are vented and incorporate a passive acoustic filter, which attenuates loud noises whilst maintaining the ability of the individual to hear speech, ambient noise and to use telephones and radios. Excessive background noise is reduced, resulting in increased safety and working comfort.

When used in the food processing industry, a 3mm stainless steel ball bearing is bonded into the earplug to make the earplugs metal detectable.



www.nanocomm.co.uk

Full NanoComm 2-way communication systems also available.

Sound Attenuation

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mean Attenuation	24.3	25.6	25.4	26.7	27.2	35.4	40.8	38.4
Standard Deviation	5.5	4.8	2.5	4.1	2.9	2.6	4.6	5.1
Assumed Protection	18.8	20.7	23.0	22.6	24.3	32.7	36.2	33.2

H=31	M=25	L=24	SNR=29
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PROTECThear ear plugs are CE marked, personally moulded reusable ear protection. EN 352-2: 1993. Tested by Salford University School of Acoustics. Report No. HP/01/26 & HP/01/27. Certified By Inspec International Ltd, certificate no. 965.

Safety Equipment



Safety Glasses

ACC211



Disposable Foam Earplugs

ACC377



Valved Dust Respirator

ACC210B

mino
CENS®



www.puretone-ppe.com



Designed & manufactured by:

Puretone Ltd, Rochester, Kent, ME2 4FR, United Kingdom.
Tel: +44 (0)1634 719427 Email: info@puretone.net

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EN352-2:2002 & EN352-7:2002, by SATRA Ltd. Notified Body No. 0321.