

Hearing Protection for your noise levels



E.A.R™ Optime™ Alert System. Sound Check Meter

3M has a simple sound level indicator for its E.A.R™ and Peltor™ products that compliments the Optime Alert System by establishing which colour code you need to follow.

You simply deploy the meter at the employees work station let it sit until the display has stabilised, this then indicates the average noise level in that area and the type of protection suggested.

The display indicates the period of time the unit has been active in 1 hour increments up to a maximum of an 8 hour working day.

The sound check meter must be restarted between measurements. The meter is accurate to ± 1 dB.

How the system works

Our system uses a simple, logically coloured classification to make the selection process easy. Firstly to find out what your noise level is, look at the above icons and establish which band (RNR) the noise level falls into. Take note of this icon and choose from the wide range of E.A.R and Peltor products featuring the correct icon. As you will see, there is a choice of earplugs, banded earplugs and earmuffs for each of the noise bands.

PLEASE NOTE:

At levels above 95dB you will need to get an accurate noise assessment to select the product correctly. Green and Yellow marked products are not suitable for use in low frequency noise.



Interpreting the coloured noise indicators



Above 95dB

You will need to get a more accurate noise assessment.



Above 87dB

Products marked with these icons are suitable at this noise level.



Between 87 - 93dB

Products marked with these icons are suitable at this noise level.



Between 83 - 93dB

Products marked with this icon are suitable at this noise level.



Between 83 - 85dB

Products marked with these icons are suitable at this noise level.



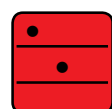
Between 80 - 85dB

Products marked with this icon are suitable at this noise level.



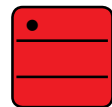
RNR* 95dB - 110dB(A)

You are above the level, hearing protection is compulsory. Ideal for all frequencies.



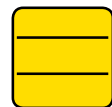
RNR* 94dB - 105dB(A)

You are above the level, hearing protection is compulsory. Ideal for high and medium frequency noise.



RNR* 87dB - 98dB(A)

You are above the level, hearing protection is compulsory. Ideal for high frequency noise.



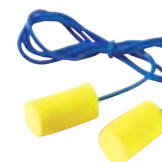
RNR* 83dB - 93dB(A)

You are above the level, hearing protection is compulsory.



RNR* < 85dB(A)

You do not have to wear hearing protection, but make it available to your workers.



*RNR = Recommended Noise Rating.

