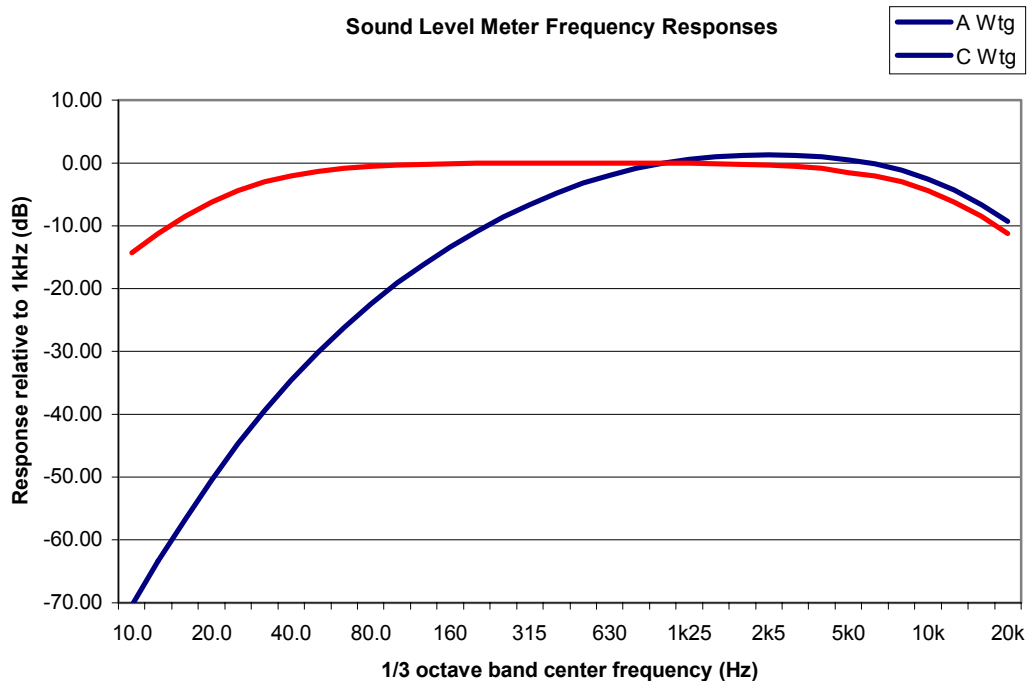


## What are the 'A' and 'C' frequency weightings ?

The 'A' and 'C' frequency weighting curves are correction filters built in to sound level meters and other acoustic measurement devices to simulate the hearing response of the human hearing mechanism.



### The 'A' and 'C' frequency weighting curves

The frequency weightings 'A', 'B', 'C' and 'D' are all simulations of human hearing. The 'A' frequency weighting best characterizes human hearing in most circumstances. The 'C' weighting closely follows human response to higher noise levels. The 'A' and 'C' weightings are now standard on most noise meters. The 'B' and 'D' weightings are no longer used for routine measurements.

Use 'A' frequency weighting:

1. When standards so state
2. To simulate human hearing in most normal cases

Use 'C' weighting:

1. When standards so state
2. To calculate Noise Rating Reduction ( $NRR=C-A$ )
3. To give meter better response to lower frequency sounds
4. European market requires peak 'C' weighting measurements for impact noises
5. Compare meter readings between different meters from different manufacturers