

25 A health inspector is measuring the intensity of a sound. Near a loudspeaker his meter records an intensity I . This corresponds to an amplitude A of the sound wave. At another position the meter gives an intensity reading of $2I$.

What is the corresponding sound wave amplitude?

A $\frac{A}{\sqrt{2}}$

B $\sqrt{2} A$

C $2A$

D $4A$

26 A sound wave is set up in a long tube, closed at one end. The length of the tube is adjusted until