

15 A point source of sound emits energy equally in all directions at a constant rate and a detector placed 3.0 m from the source measures an intensity of 3.0 W m^{-2} .

What intensity would the detector measure if it is now placed at a distance 5.0 m from the source?

- A** 1.1 W m^{-2} **B** 1.8 W m^{-2} **C** 2.5 W m^{-2} **D** 8.3 W m^{-2}