

Mahogany Electromagnetic Mantel Clock by Eureka Clock Co.



A rare early 20th century electromagnetic balance mantel timepiece, serial number 8748 by the Eureka Clock Company Limited.

The mahogany case has a shallow moulded break-arch pediment. The front door is fitted with bevelled glass, the rear with a solid arch door.

The electromagnetic movement has a large bimetallic balance with timing weights around its circumference. To the centre of the balance is a ball bearing pivot over a regulation adjustment scale which is inscribed *No. 8748, PATENT, No. 14614, 1906 MADE IN ENGLAND*.

The 4¼ inch convex enamel dial has Arabic numerals and steel moon hands. It is signed *EUREKA CLOCK Co. LTD., LONDON* to the centre. The dial sits within a cast brass bezel.

The battery compartment is hidden high behind the dial, and contains a regulated battery perched on the shelf. This contains 4 x standard 'C' batteries.

Height 13 inches (33cms)

Width 24cms

Depth 16cms

To be overhauled and guaranteed for 3 years.

The Eureka mantel timepiece was invented by Timothy Bernard Powers of New York shortly after 1900 and Patented in 1906.

The Eureka Clock Company in London, England made these clocks between 1908 and 1914, and it is thought that around 10,000 were made by them before their demise in 1914. The design of the balance is such that a constant voltage (of c.1.5 volts) is required to ensure consistency in the amplitude of oscillation. Unfortunately early 20th century battery technology struggled to deliver a suitably stable output hence such timepieces acquired a reputation for poor timekeeping. Nowadays, good timekeeping can be achieved through the use of regulated cells which provide a much more consistent voltage output.