

CURRENT.

The current necessary to *fuse* the standard iridio-platinum wires is—

For the "0.003" wire.....1.65 weber.
 " " 0.0014" wire0.8 "

Heat produced by a current.

Number of units of heat* produced
 by a current C in time t , in the
 portion of the circuit whose re-
 sistance is r . $\left. \vphantom{\begin{array}{l} \text{Number of units of heat* produced} \\ \text{by a current } C \text{ in time } t, \text{ in the} \\ \text{portion of the circuit whose re-} \\ \text{sistance is } r. \end{array}} \right\} = 0.2405 C^2 r t.$

*This unit of heat belongs to the C. G. S. system, and is the quantity of heat required to raise the temperature of one gramme of distilled water, at its maximum density, by 1° Cent. The time is expressed in seconds, the current in webers, and the resistance in ohms.