

Potentiostat

Introduction:

A potentiostat is an analytical instrument designed to control the working electrode's potential in a multiple electrode electrochemical cell. In a conventional three-electrode cell, the cell cable connects to the working, counter (auxiliary), and reference electrodes on one end and the potentiostat cell cable connector on the other end [1].

This implementation consists of a three-pin electrode which can be observed in illustration 1. The implementation also consists of a software which allows for remote collection of the data through the potentiostat.

Implementation:

The following illustration shows the three-pin electrode.

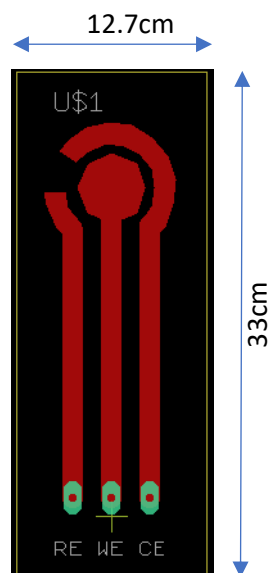


Illustration 2: Potentiostat Electrode Diagram



Illustration 2: Potentiostat Electrode Drawing

References:

1. *What is a POTENTIOSTAT and How does it work?* Pine Research Instrumentation Store. (2021, May 24). <https://pineresearch.com/shop/kb/theory/instrumentation/what-potentiostat-does/>.