

**BE2050824D1**

**Three Electrode Sensor**

**PRODUCT DESCRIPTION**

A three electrode sensor design ideal for electrochemical measurements in aqueous solution.

**Customisation**

This sensor can be printed using a wide range of materials to give a variety of combinations depending on the specific requirement of the customer.

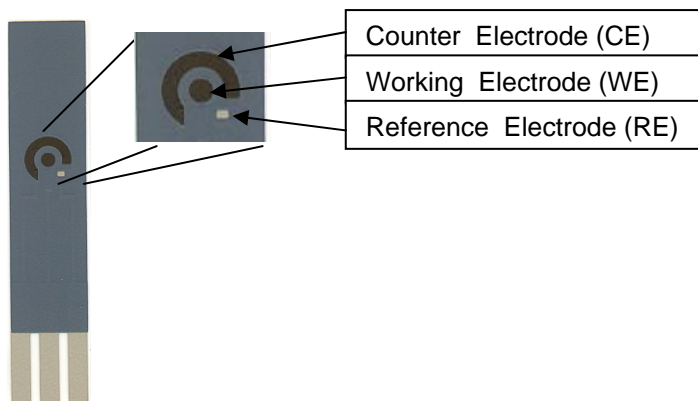
[See Material Selection Guide](#)

**Product Benefits**

Small sample volumes 25-100µl to cover working area.  
Suitable for use as an electrochemical sensor and biosensor in conjunction with enzymes, DNA or other biomolecules

Increased sensitivity for low sample volumes.

**DESIGN**



**Multiple Units**

This design is printed in multiples of 4 sensors per substrate.

**Substrate**

Laser scribed alumina, polyester, PVC, Valox FR1

**Storage**

The product should be kept stored in cool, dry conditions protected from light.

**Shelf Life**

In a sealed bag, stored correctly, the shelf life is 6 months from despatch.

**Minimum Order**

125 substrates, 500 Electrodes

**Electrochemistry**

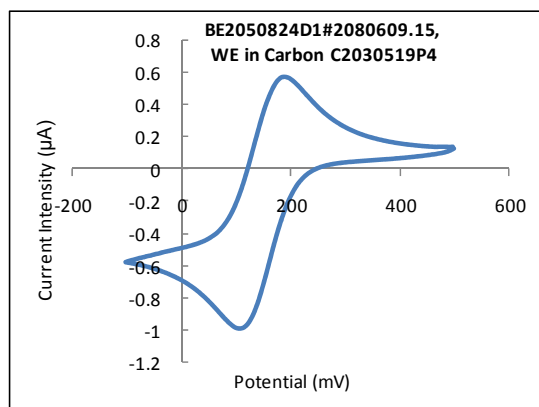
Typical Cyclic Voltammogram obtained with this electrode design.

The materials used are:

WE Carbon/Graphite Paste—C2030519P4

RE 60:40 Silver: Silver Chloride Paste—C2130809D5

CE Carbon/Graphite Paste—C2030519P4



*Cyclic Voltammetry carried out at scan rate 0.05V/s  
Solution used: 0.05mL of 0.5mM Ferricyanide solution, pH = 7.5*

<b>Working Electrode</b>	2mm diameter
<b>Reference Electrode Area</b>	0.5mm x 1mm
<b>Counter Electrode to Working Electrode Ratio</b>	4:1
<b>Overall Dimensions of Individual Electrode</b>	10mm x 50mm (w x l)

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All values reported here are results of experiments conducted in our laboratories and are intended to illustrate the products performance. They are not intended to represent the products specifications