

DS DROPSENS

Screen-Printed Prussian Blue/Carbon Electrode (ref. 710)

Disposable **Screen-Printed Prussian Blue/Carbon Electrodes** (ref. 710) are ideal for the determination of hydrogen peroxide at a low detection potential. These electrodes are recommended for the development of enzymatic biosensors based on oxidases, for working with microvolumes and for decentralized assays.



Ceramic substrate: L33 x W10 x H0.5 mm

Electric contacts: Silver

The electrochemical cell consists on:

Working electrode: Prussian Blue/Carbon (4 mm diameter)

Counter electrode: Carbon

Reference electrode: Silver

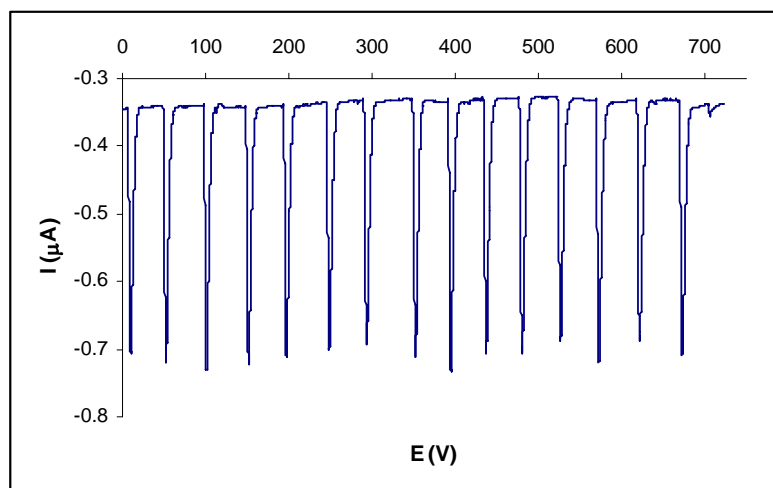


Figure 1. Amperometric detection of hydrogen peroxide in a flow injection analysis system with our easy to use flow cell. The amperometric responses for $1 \cdot 10^{-4}$ M H_2O_2 at a ref. 710 electrode do not show any fouling effect. RSD% = 3.2, n = 15.

E_{det} -0.1 V; Flow rate 2.2 ml/min; Flow carrier 0.1 M phosphate buffer, pH 6.0 and 0.1 M KCl.

Screen-printed Prussian Blue/Carbon Electrodes are commercialised in 75 units packs. They should be stored at room temperature in a dry place.

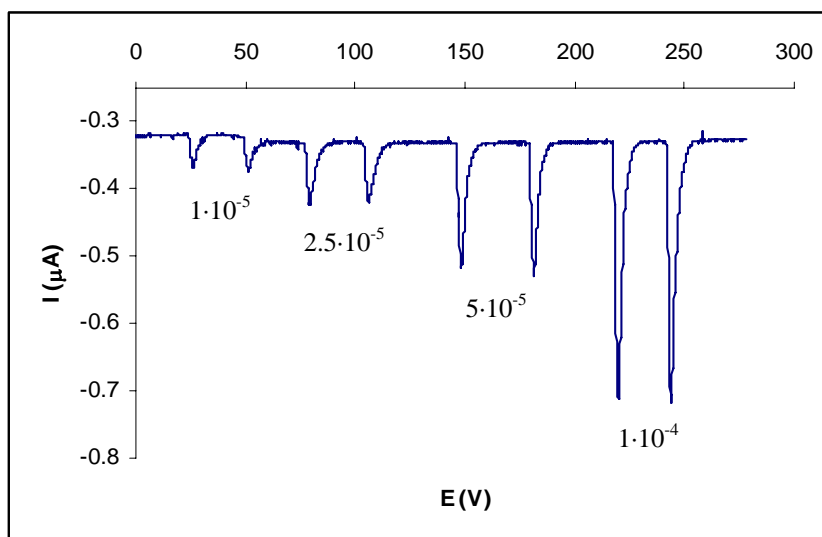


Figure 2. Analysis of hydrogen peroxide between $1 \cdot 10^{-5}$ M and $1 \cdot 10^{-4}$ M is presented in the figure. E_{det} -0.1 V; Flow rate 2.2 ml/min; Flow carrier 0.1 M phosphate buffer, pH 6.0 and 0.1 M KCl.

ref. CAC



Figure 3. Cable connector for screen printed electrodes



Figure 4. Flow -cell for screen printed electrodes