Screen-Printed Ferrocyanide/Carbon Electrode

(ref. F10)

Disposable **Screen-Printed Ferrocyanide/ Carbon Electrodes (ref. F10)** 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: Ferrocyanide/Carbon (4 mm diameter)
Counter electrode: Carbon
Reference electrode: Silver

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

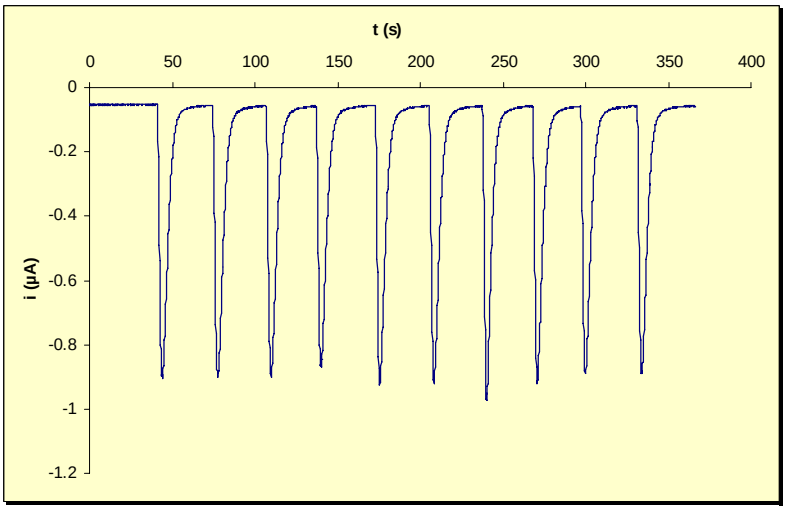

Figure 1. *Amperometric detection of hydrogen peroxide in a flow injection analysis system with our easy to use flow cell. The amperometric responses for1·10^{-3} M H_2O_2 at a ref. F10 electrode do not show any fouling effect. RSD% = 3.5, n = 10.*
E_{det} -0.15 V; Flow rate 2 ml/min; Flow carrier 0.05 M phosphate buffer, pH 6.5 and 0.1 M KCl.

(+34) 985 27 76 85
Edificio Severo Ochoa, Local 5 - El Cristo
33006 Oviedo (Asturias) - Spain
info@dropsens.com

These **Ferrocyanide/Carbon Electrodes (ref.F10)** can also be used in batch, for chronoamperometric detection of hydrogen peroxide using a drop of 40 µL of sample.

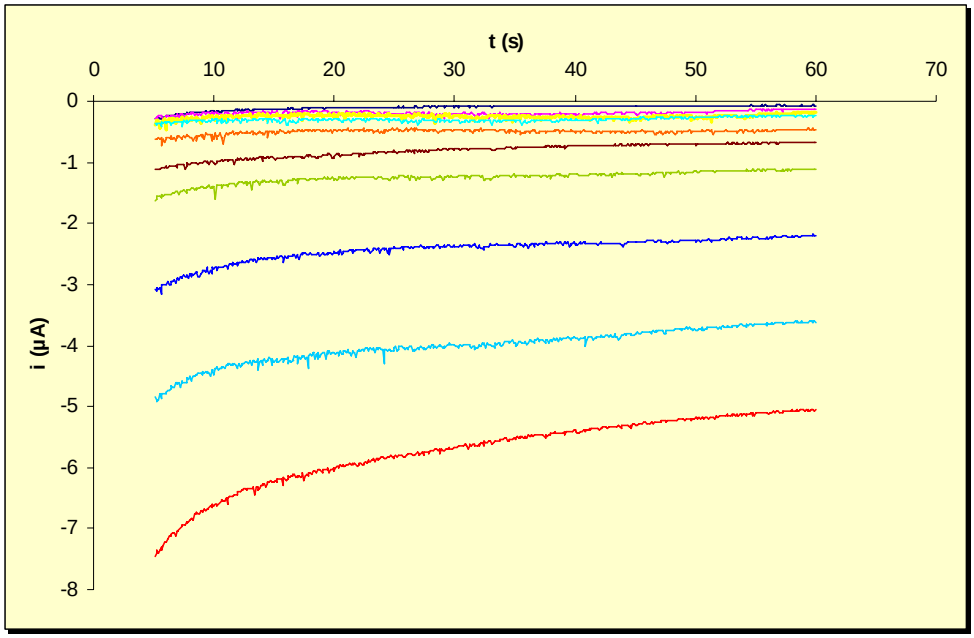

Figure 2. In this assay different electrodes are used for each measurement.

Analysis of hydrogen peroxide between $2.5 \cdot 10^{-5}$ M and $1 \cdot 10^{-3}$ M is presented in the figure.

E_{det} -0.15 V (60 s); Electrolyte solution 0.05 M phosphate buffer, pH 6.5 and 0.1 M KCl.

ref. CAC

Figure 3. Cable connector *for screen printed electrodes*

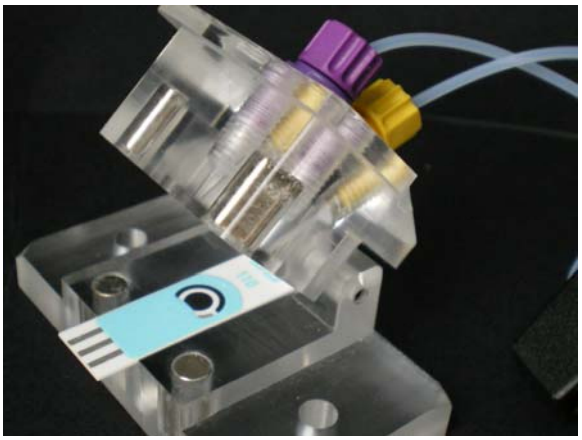

Figure 4. *Flow –cell for screen printed electrodes*

(+34) 985 27 76 85

Edificio Severo Ochoa, Local 5 - El Cristo
33006 Oviedo (Asturias) - Spain

info@dropsens.com