

## Batch Injection Analysis Cell for Screen-Printed Electrodes (1000 $\mu$ L micropipette)

Ref. BIASPE10



**BIASPE10** is a **Batch Injection Analysis (BIA)** Cell designed to work with Screen-Printed Electrodes (SPEs) as a robust portable electroanalytical system. Thanks to the use of a battery-powered electronic pipette, it offers results as a standard FIA system making it a convenient and easy to use tube-less FIA system for SPEs.

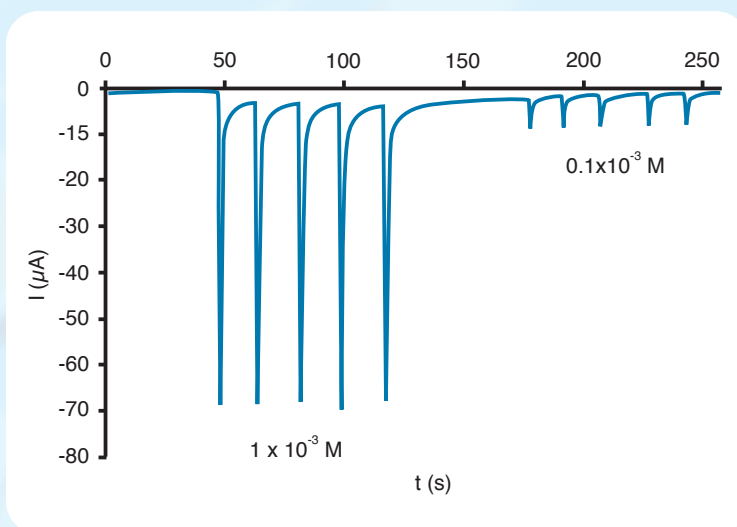
**BIASPE10** can be use with all standard **DropSens SPEs** with the *sensor part in the middle of the strip* and formed by electrochemical cells of three electrodes: working electrode, reference electrode and auxiliary electrode. It has an **innovative open-close system** (no screws needed) offering an **easy SPE replacement**.

The **Electronic Micropipette P1000M** (100-1000  $\mu$ L) included in the system can be programmed with a user- friendly and intuitive computer software allowing automatic aliquots dispensing after programmed times; it can also be manually programmed in order to use other available dispensing modes such as Forward pipetting, Repetitive pipetting, Mix or Reverse pipetting.

When compared with a standard FIA system, in the **BIASPE10** the electronic pipette is the pump and the injection valve, therefore reproducible flow rate and injection volume (electronically controlled) are ensured, and problems with air bubbles in the system are avoided.

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Amperometric detection of potassium ferricyanide in 0.1 M KCl using the BIASPE10 cell with DRP-110 screen-printed electrode and with stirring.  $E_{det}$ : -0.2 V; pipetting speed: 3; injection volume 200  $\mu$ L; volume of 0.1 M KCl in the BIA cell: 80 mL.

### CELL: General Specifications

- Volume: Up to 80 mL
- Material: Acrylonitrile butadiene styrene (ABS) - non compatible with *organic* solvents
- Dimensions: 11x11x9 cm (L x W x H) ; [11x11x32 cm (with Micropipette inside)]
- Weight: 405 g ; [525 g (with Micropipette inside)]

### MICROPIPETTE P1000M: General Specifications

- Volume Range: 100 - 1000  $\mu$ L
- Power: Li-ion Battery
- PC interface: USB
- Automatic Pipetting Modes: User programming (volumes and times) via PC software
- Manual Pipetting Modes: Forward, Repetitive, Mix, Reverse
- Aspiration Speed: 1-6 (six speeds)
- Pipetting Speed: 1-6 (six speeds)
- Tips: DRP-DTIPD1000 (100-1000  $\mu$ L)

### Related products



DTIPD1000



CAST



CAC



STAT400



STAT300

Full Catalogue



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