

micrux
TECHNOLOGIES



All-in-One SPE platform
for thick-film electrodes



The All-in-One SPE cell (Ref. ED-AIO-SPE-CELL) provides an unique multipurpose interface with movable add-ons that can be easily interchanged for using the standard *thick-film electrodes* supplied by MicruX Technologies.

» AIO-SPE-cell general features

The AIO-SPE-cell enables the use of the thick-film electrodes in *static (Batch-cell)* or *dynamic (Flow-cell)* conditions, fulfilling the requirements of **multiple** electroanalytical applications.

- » Dimensions (base): 60 x 40 x 15 mm (WxDxH)
- » Material (base): aluminium
- » Easy and Fast electrode replacement
- » Reusable – long-life

Thick-film electrode (27.5 x 10.1 mm)

- » PMMA Add-Ons
- » Movable Add-Ons
- » Easy Add-Ons assembly

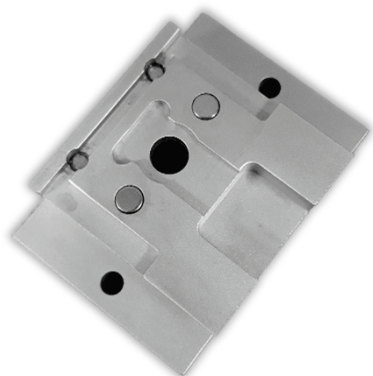
BATCH-CELL

FLOW-CELL



The All-in-One (SPE) cell is provided in two basic versions, the *supporting base + one add-on* (Ref. ED-AIO-SPE-CELL-1x) or the *supporting base + two add-ons* (Ref. ED-AIO-SPE-CELL-2x).

» AIO-cell specific Add-ons features



The AIO-SPE cell consists of a supporting base containing the accommodation for placing the standard *thick-film electrodes* (27.5 x 10.1 mm). The supporting base also includes the basic assembly parts for the different add-ons.



» Batch-cell Add-on



The **batch-cell** add-on enables the use of the standard (27.5 x 10.1 mm) thick-film electrodes in applications (batch analysis, standard additions, etc...) in which are required larger **sample volume** up to 1 mL.



» Flow-cell Add-on



The **flow-cell** add-on enables the use of the standard (27.5 x 10.1 mm) thick-film electrodes as EC detection system in **flowing liquids** such as FIA, HPLC, CE, etc...

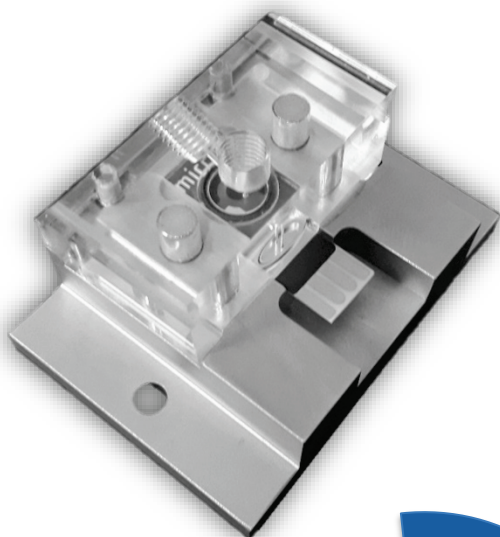


- » **Wall-jet** based flow-cell. The inlet flow is perpendicular to the working electrode surface.
- » Standard **fluidic ports** (¼" - 28 UNF) with inlet channel of 0.8 mm I.D.
- » **Low dead-volume** (internal volume <5 µL). The cell volume is limited by an O-ring (8 mm I.D.).
- » **High sensitivity** electrochemical measurements.
- » **Low sample** requirements (microvolume < 100 µL).

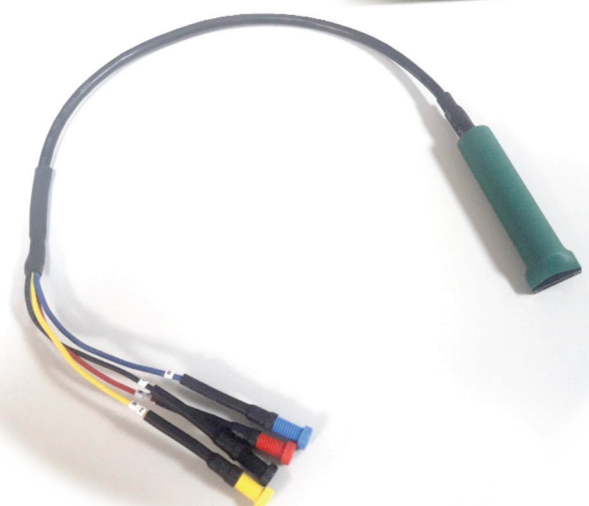


» AIO-SPE-cell instrument-interfacing

» AIO-SPE-cell interfacing



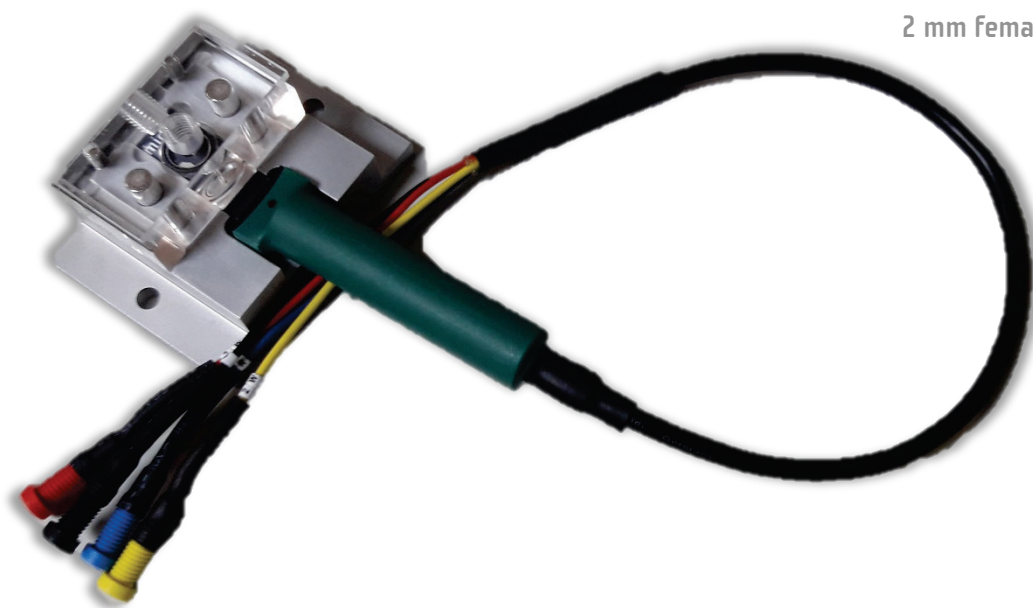
» CABLE connector



A universal **CABLE connector** (ref. **ED-SPE-CABLE**) is supplied with the AIO-SPE cell. The cable enables the interface between the electrodes (up to four contact pads) with the potentiostat.



The cable ends are available with 2 mm female or male bananas.



Plug to instrumentation may be available in other format under previous request.



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