

micrux
TECHNOLOGIES



External Electrodes
& Platform

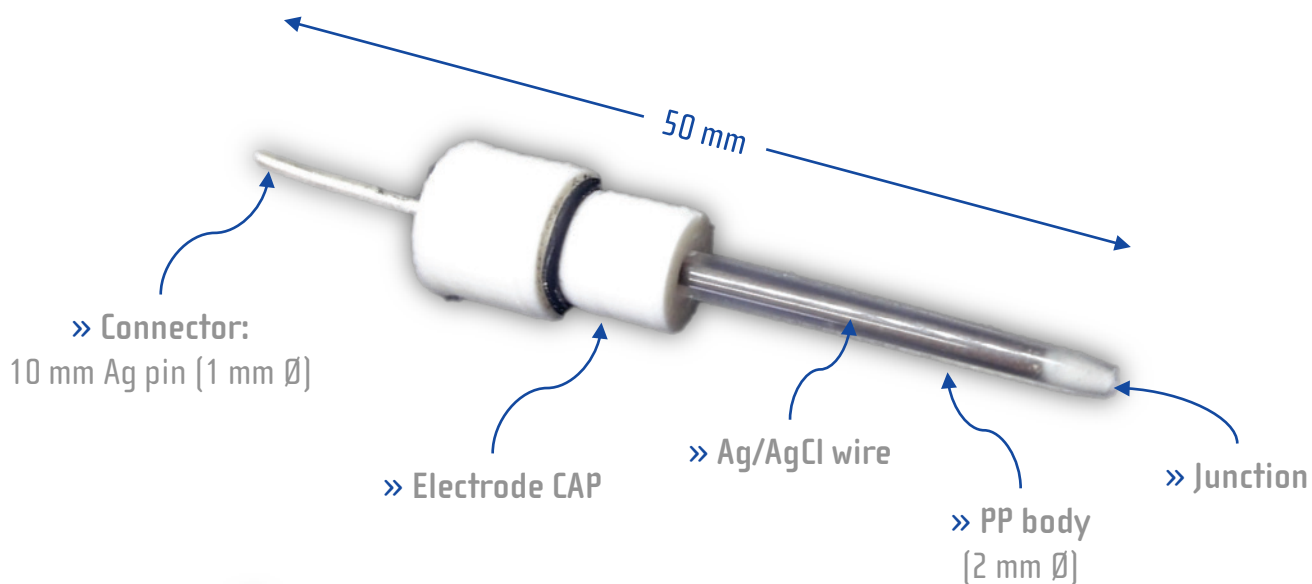


MicruX provides miniaturized reference (Ag/AgCl) and auxiliary/counter (Pt or SS) electrodes for using with MicruX' thin-film (micro)electrodes and AIO platform. External electrodes (reference and auxiliary/counter electrodes) can be a useful solution in several electroanalytical applications.

» Reference Electrode – Ag/AgCl

Silver/Silver Chloride electrode is one of the most used reference electrodes for electrochemical measurements. This reference electrode provides an highly **stable potential** along the electrochemical experiments.

MicruX' miniaturized reference electrode consists of a Ag/AgCl wire inserted in a polypropylene (PP) body with 3M KCl as supporting electrolyte (Ref. RE-Ag/AgCl).



» Electrode body is made of high resistance PP (polypropylene) compatible with acid and alkaline solutions as well as common organic solvents.

» PP body can be easily unmounted and re-filled with fresh electrolyte (3M KCl) in case it was needed. Moreover, silver/silver chloride wire can be also regenerated by oxidizing in KCl solution.

» Ag/AgCl reference electrode is provided in a vial with a 3M KCl solution. Electrode should be kept at dark and 2-8°C meanwhile it is not used.

External Electrodes

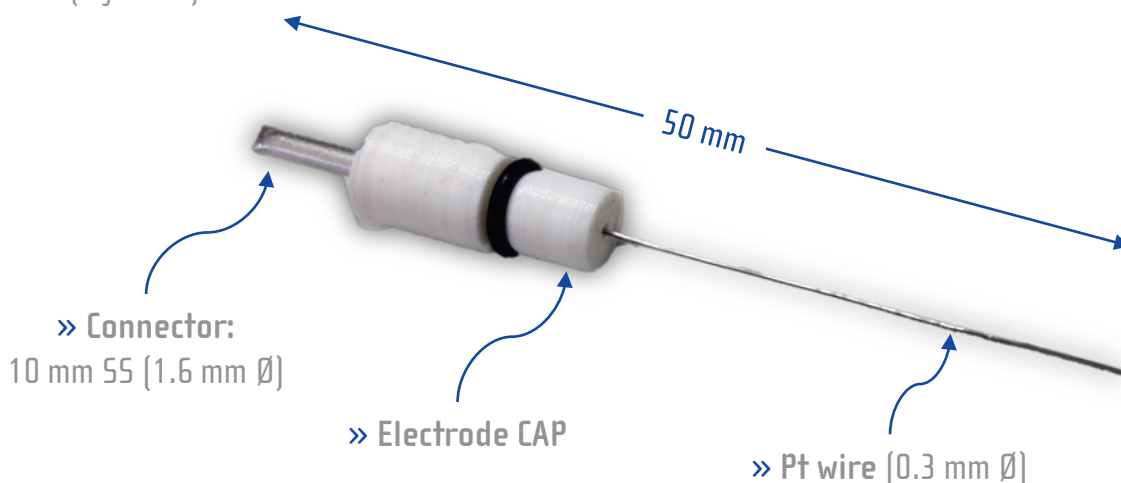


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» Auxiliary/Counter Electrode – Pt

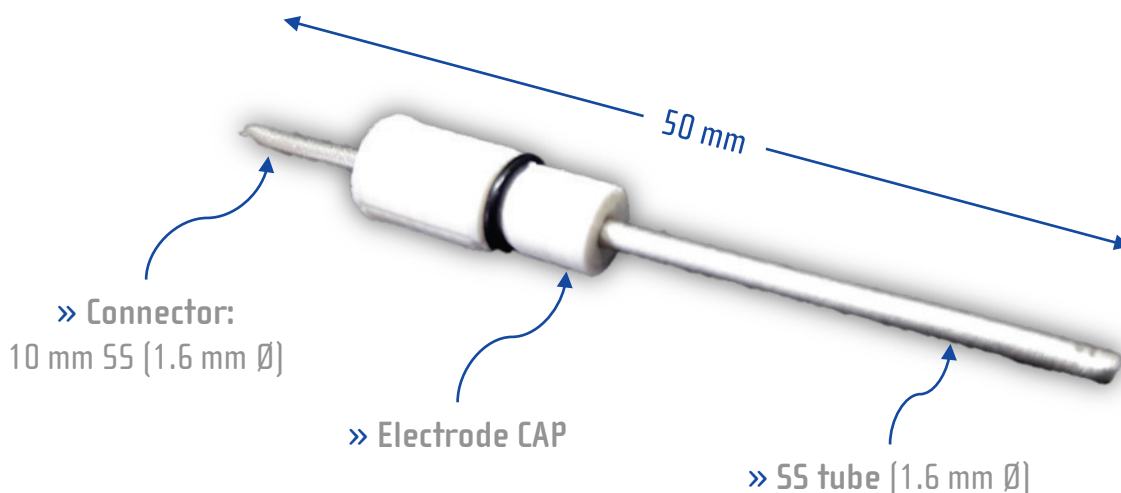
Auxiliary or counter electrodes are typically used in three-electrode electrochemical cells. External counter electrodes can be useful for high current measurements or in case the electrode is not integrated on-chip.

Auxiliary/counter electrodes are made of a highly inert materials. Thus, MicruX provides **Platinum Auxiliary/Counter electrodes** (*Ref. CE-Pt*).



» Auxiliary/Counter Electrode – SS

Auxiliary/counter electrodes can be made of other inexpensive materials. Thus, MicruX also provides **Stainless Steel (SS) Auxiliary/Counter electrodes** (*Ref. CE-SS*). SS electrode keeps a good robustness with a lower cost.



AIO-EEP Platform



MicruX has developed the **EEP platform** (Ref. *EEP-AIO-CELL*) to adapt the external electrodes to the thin-film (micro)electrodes using the All-in-One cell. This platform simplify the **placement** of the **external electrodes** in the AIO-cell to be used with the MicruX' thin/thick-film electrodes.

» External Electrode Platform (EEP) for AIO cell

The EEP Platform enables the use of **external electrodes** in the AIO-cell in static conditions with the **batch-cell additions**. The **EEP Platform** can be used to place just the external reference electrode or the reference and auxiliary electrodes together.

» Dimensions: 70 x 65 x 35 mm (WxDxH)

» Material: PLA

EEP base

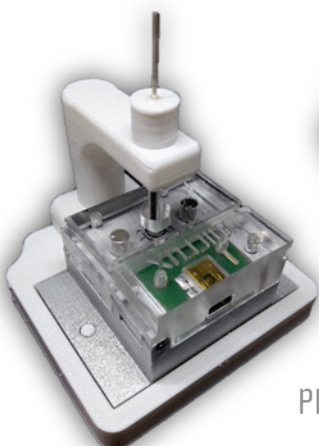
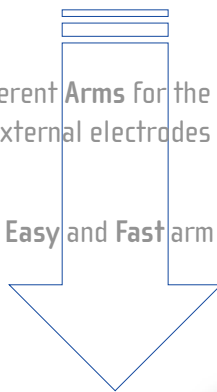


» Easy AIO-cell fitting

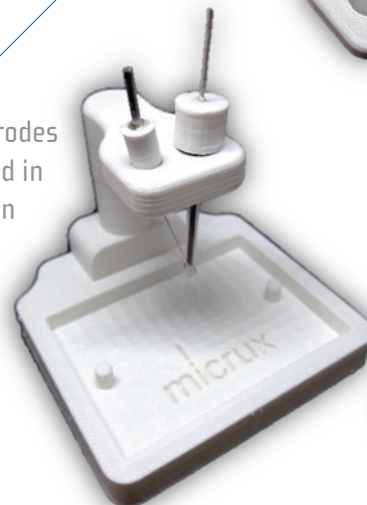
» Different Arms for the placement of external electrodes

» Easy and Fast arm positioning

» External electrodes are always placed in the same position



Platform with external Reference Electrode



Platform with external Reference & Auxiliary Electrodes





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