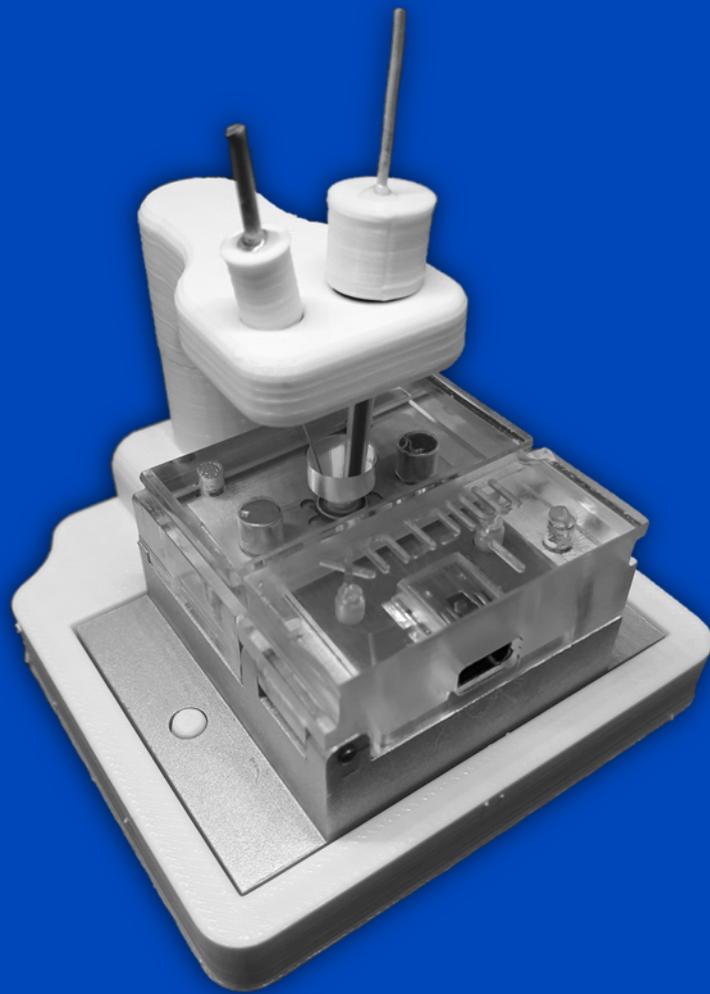


micrux
TECHNOLOGIES



External Electrodes
& Platform

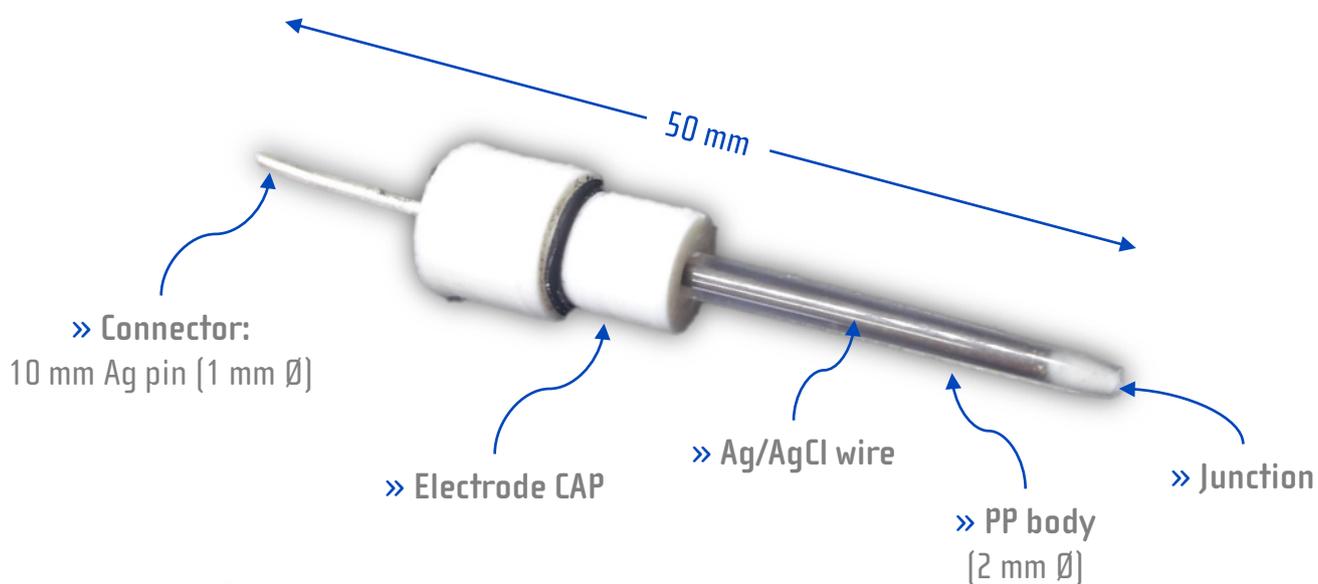


MicruX provides miniaturized reference (Ag/AgCl) and auxiliary/counter (Pt or SS) electrodes for using with MicruX' thin-film (micro)electrodes and AIO platform. External electrodes (reference and auxiliary/counter electrodes) can be a useful solution in several electroanalytical applications.

» 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.

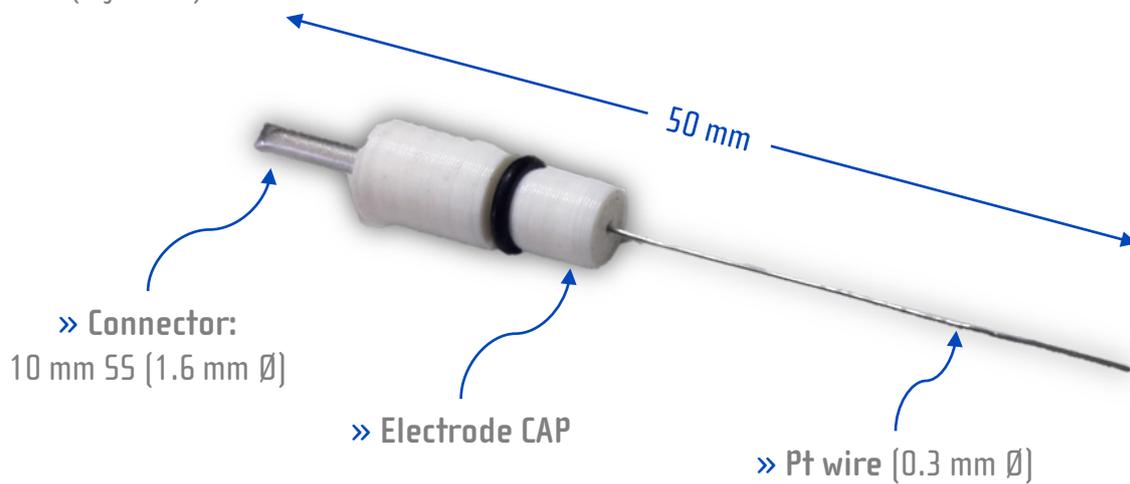


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» Auxiliary/Counter Electrode – Pt

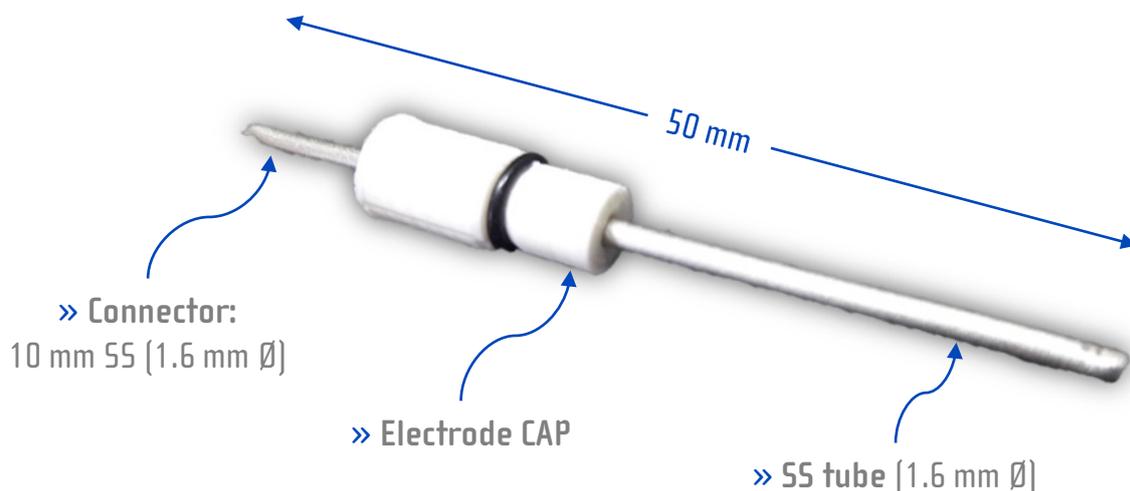
Auxiliary or counter electrodes are typically used in three-electrode electrochemical cells. External counter electrodes can be useful for high current measurements or in case the electrode is not integrated on-chip.

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.

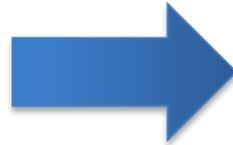
» External Electrode Platform (EEP) for AIO cell

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

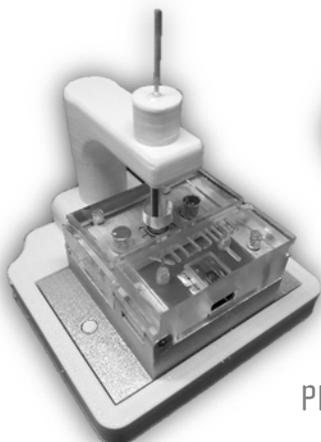


» **Easy AIO-cell fitting**

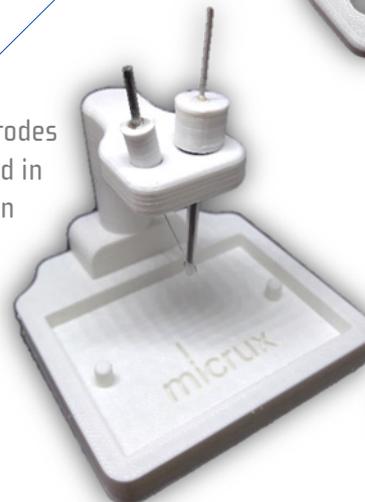
» **Different Arms** for the placement of external electrodes

» **Easy and Fast** arm positioning

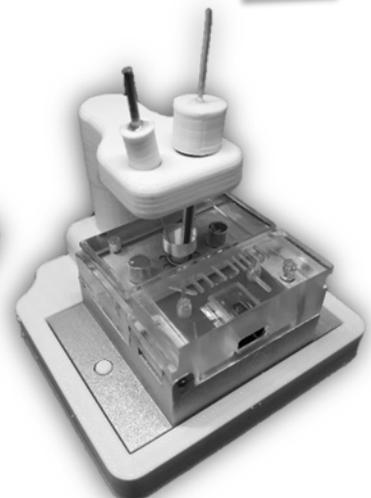
» **External electrodes** are always placed in the same position



Platform with external
Reference Electrode



Platform with external
Reference & Auxiliary Electrodes





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