

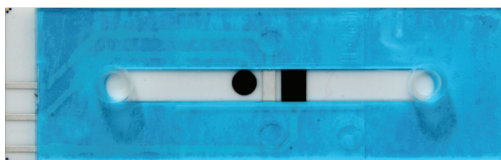
Thin-layer Flow-Cell Screen-Printed Electrodes Circular WE

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Refs. **TLFCL110-CIR, TLFCL210AT-CIR, TLFCL210BT-CIR, TLFCL510-CIR, TLFCL010-CIR**

Metrohm DropSens Screen-Printed Electrodes integrated in one channel flow-cell (TLFCL110-CIR, TLFCL210AT-CIR, TLFCL210BT-CIR, TLFCL510-CIR and TLFCL010-CIR). These electrodes are based on a three electrode electrochemical cell with a working electrode made of carbon, gold [high (AT) and low (BT) temperature curing inks], platinum or silver, an auxiliary electrode made of carbon and a pseudoreference electrode made of silver. The diameter of the WE electrode is 4 mm as our standard screen printed electrodes.

These devices are useful for working with **Flow Injection Analysis (FIA)** systems as well as for an easy control of the sample volume in **batch mode**. They are also suitable for **spectroelectrochemical measurements**. Due to the transparent cover that defines one channel (height 400 μ m, and 100 μ L of volume) a thin layer is formed over the electrochemical cell. The cover's transparency allows the detection of air bubbles inside the cell.



Ref. **TLFCL110-CIR**

Working electrode: Carbon (4 mm diameter)
Auxiliary electrode: Carbon
Reference electrode: Silver



Ref. **TLFCL210AT-CIR & TLFCL 210BT-CIR**

Working electrode: Gold AT or Gold BT (4 mm diameter)
Auxiliary electrode: Carbon
Reference electrode: Silver



Ref. **TLFCL510-CIR**

Working electrode: Platinum (4 mm diameter)
Auxiliary electrode: Carbon
Reference electrode: Silver



Ref. **TLFCL010-CIR**

Working electrode: Silver (4 mm diameter)
Auxiliary electrode: Carbon
Reference electrode: Silver

The integrated electrodes in thin layer flow cell design (TLFCL) are suitable to perform flow injection analysis. The slide is mounted over the Screen-Printed Electrodes platform delimiting a flow channel. The injection is done through an "in-line luer injection port" (ref. TLFCL-INLINEPORT) where sample volume can be easily controlled by operator through a syringe. This configuration simplifies operability and effectiveness of working in FIA systems.

These electrodes are commercialized in 10 units packs. They should be stored at room temperature, protected from light in a dry place.

Specific cable connector ref. **CAC-TLFCL** that act as an interface between these electrodes and any kind of potentiostat, are available at [Metrohm DropSens](https://www.metrohm.com).

www.metrohm-dropsens.com