Microcell Passive Setup

One setup for many electrochemistry applications

The Microcell Passive setup has been designed to **provide a simple and reliable test cell fixture** when working with test cells from rhd instruments.
The socket is made of anodized aluminium and offers a strain relief for the cables leading from the device to your test cell. The **test cell is** therefore kept **in place** and you have **significantly less wiring effort**. The cell fixture can be used inside of an oven or climate chamber to adjust the sample temperature. Optionally, the sample **temperature can be read out** from the Pt100 sensor embedded in the socket of each test cell

Typical Applications:

- Determination of the **electrolyte conductivity.**
- Investigation of the **structure and dynamics of buried interfaces**.
- Investigation of the **behavior of electrochemical systems** in general.

Suggested Accessories

840212

TSC 1600 Closed

840214

TSC Battery

840215

TSC Surface

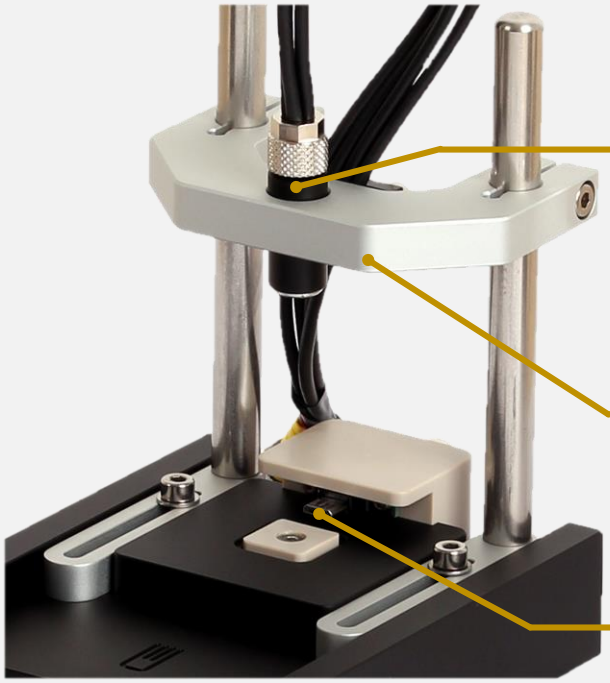
840216

TSC Spectro

www.rhd-instruments.de
info@rhd-instruments.de

rhd instruments
flexible cell solutions

Microcell Passive Setup



Technical Specifications

Compatible test cells:	• TSC 70/1600 Closed • TSC Sw closed • TSC Battery • TSC Surface • TSC Spectro • TSC Raman
Temperature range during operation, e.g. inside of oven:	0 °C ↔ +75 °C
Rated values of cell stand	11.3 cm x 9.5 cm x 25.0 cm (L x W x H)
Optional accessories:	• Connector modification to read out sample temperature • Transducer box

References

[1] M. Kroll, *'Reconstruction-Simulation Approach Verifies Impedance-Derived Ion Transport Tortuosity of a Graphite Battery Electrode'*, *J. Electrochem. Soc.* **(2018)**, *165*, *13*, A3156. **https://doi.org/10.1149/2.0711813jes**

[2] J. Schwaben *et al. 'Efficient Syntheses of Novel Fluoro-Substituted Pentacenes and Azapentacenes: Molecular and Solid-State Properties'*, *Chem. Eur. J.* **(2015)** *21*, *39*, 13758. **https://doi.org/10.1002/chem.201501399**

[3] J. Speulmanns et al., *'Atomic Layer Deposition of Textured Li4Ti5O12: A High-Power and Long-Cycle Life Anode for Lithium-Ion Thin-Film Batteries'*, *Small* **(2021)** *17*, *34*, 2102635. **https://doi.org/10.1002/smll.202102635**

[4] L. Lohmeyer et al., *'1,2,5,6-Tetrakis(guanidino)-Naphthalenes: Electron Donors, Fluorescent Probes and Redox-Active Ligands'*, *Chem. Eur. J.* **(2020)** *26*, *26*, 5834. **https://doi.org/10.1002/chem.201905471**

www.rhd-instruments.de

info@rhd-instruments.de

rhd instruments
flexible cell solutions