

Real-time gas analysis







EC-MS Professional

EC-MS Professional applications

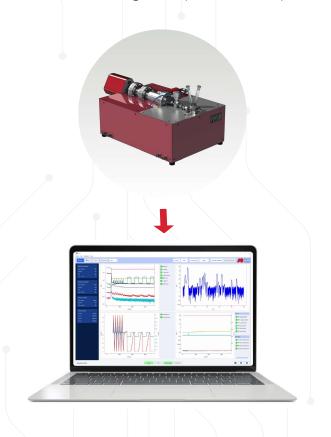
- Electrocatalysis: Enhancing catalytic efficiency and selectivity of electrochemical reactions, such as HER, OER and CO₂RR.
- Material Science: Developing novel materials with superior performance and stability.
- Fundamental studies: Mechanistic insights of the electrode electrolyte interface and accurate determination of faradaic efficiencies.



Optimize Your Workflows

EC-MS Professional

- Turnkey Solution: Ready-to-use, integrated setup for quick start in cutting-edge research.
- Real-time Experiments: Access and analyze data instantly for dynamic experiment adaptation.
- User-Friendly Software: Manage experiments effortlessly with intuitive PC software.
- Analytical data: Easily export your synchronized data.
- Expert Support and Training: Comprehensive assistance and training from Spectro Inlets' experts.



Why EC-MS Professional?

- ✓ Real-time and fully quantifiable
- ✓ Unprecedented sensitivity
- ✓ Negligible electrolyte evaporation allowing long duration test
- ✓ Turnkey solution with integrated software
- ✓ Documentation and support by specialists
- ✓ Training video to allow for fast onboarding
 of new users of the instrument

Advantages over DEMS

Differential electrochemical mass spectrometry (DEMS)

- Not compatible with volatile electrolytes
- Loss of analyte to differential pumping
- High consumption of electrolytes
- Not fully quantitative

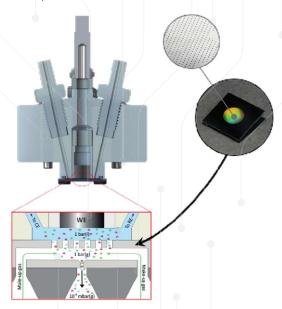
EC-MS Professional

- Fully compatible with volatile electrolytes
- No analyte loss due to no differential pumping
- Very low electrolyte consumption
- Fully quantifiable
- No differential pumping/full analyte collection

www.spectroinlets.com

How is it working?

Our core technology is our membrane chip with a micro porous membrane



Combining electrochemistry (EC) with mass spectrometry (MS) provides a strong tool for analyzing electrochemical product formation. Through an optimized membrane chip with integrated microcapillary, Spectro Inlets offers a unique inlet, coupling the electrochemical environment to the vacuum conditions of the MS. The hydrophobic membrane facilitates transport of volatiles to the MS while inhibiting electrolyte evaporation.

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About Spectro Inlets

We are a company founded in 2016 by a team of engineers from the Technical University of Denmark (DTU). Our core technology is a unique microchip inlet system enabling mass spectrometry of volatiles in liquids, which is the result of more than 10 years intense R&D work.

Based on the chip inlet system, we have developed a portfolio of state-of-the-art gas detection systems for electrochemistry. Our EC-MS Professional, enables researchers to gain unique insights into material properties and Power-to-X research.

Contact us at

sales@spectroinlets.com

for further inquiries and to schedule a meeting with one of our electrochemistry experts or

visit www.spectroinlets.com



Spectro Inlets ApS Fruebjergvej 3, 2200 Kbh. Ø Denmark