

A HYDROGEN FUTURE FOR A NET ZERO WORLD

Fuel cell & Electrolyser measurement solution





SCANTECH headquarter

Founded in 1992, SCANTECH was first to introduce low-energy x-ray transmission technology for online measurement. Today, over 8,000 x-ray systems are installed globally for many types of production processes; extruded films & sheet, non-wovens, metals, paper, converting (lamination & coating) and energy materials (electrodes and PEMs).

SCANTECH's DNA is a scientific based and focused company with an expansive, young and dynamic R&D division that enables us to continue to lead the world-wide market online measurement & control systems and visual inspection tools. We are dedicated to expanding and perfecting our offer to include groundbreaking technologies, such as ergonomic and flexible UI, automatic sensor calibration functionality.

SCANTECH headquartered in France, has fully-owned subsidiaries in China (Guangzhou), USA, Germany, Italy, South Korea, India, Malaysia, and Taiwan. The strong multi-disciplined R&D team are based in France and oversee and supervise the production process of the systems.

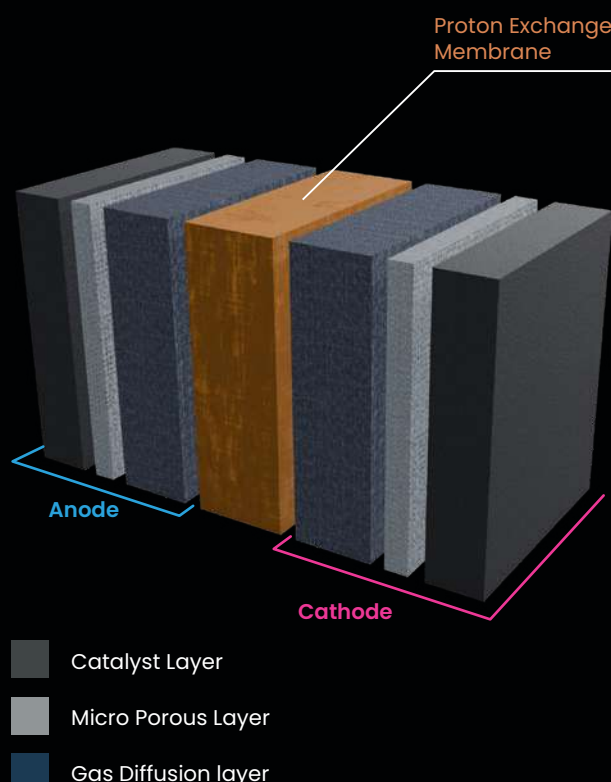
To ensure worldclass customer experience and satisfaction, each subsidiary provides comprehensive customer technical support, installation and maintenance services locally. With multiple assembly centers around the world, SCANTECH can supply the same high-quality products to domestic customers, and provide timely service and a complete stock of spare parts.

The global hydrogen energy industry has developed rapidly in recent years, and continues to grow as the world strives to decarbonise.

The proton exchange membrane (PEM) plays a key role in ensuring the high-standard performance of fuel cells by coating them with high cost catalyst materials notably platinum & iridium. The need to measure accurately and repeatably these catalyst elements is critical to ensure the quality and performance of the fuel cell/electrolyser and to help reduce the kWh cost through improving yields and controlling the catalyst loading.

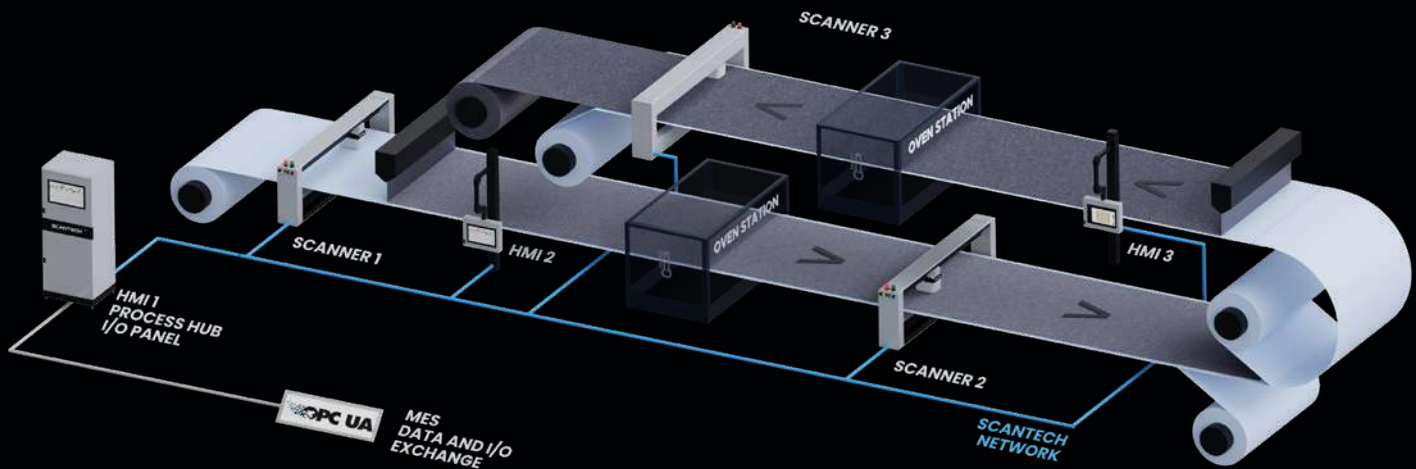
UNIQUE

SCANTECH has developed a unique and proven application specific x-ray transmission solution to directly the catalyst weight. The measurement is high speed, accurate and repeatable. It overcomes the issues encountered with other technologies such as XRF, beta and conventional x-ray.

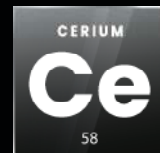
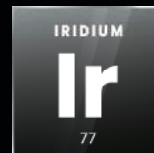


ONLINE X-RAY MEASUREMENT SOLUTION FOR CATALYST COATED MEMBRANES

CCM Direct Coating



A specific method for measuring platinum independently is the key to controlling product quality.



Unsatisfactory conventional measurement solutions

Beta

Measures TOTAL loading weight, cannot see the Pt or Ir directly.

A catalyst indication is only offered by manually providing the catalyst loading % of the coating ink.

Low fidelity measurement.

Nucleonic source.

XRF

Extremely slow measurement.

Measuring on products with discrete patch patterns becomes impractical as the slow measurement results in patches not being inspected.

Typically requires periodic/frequent sample referencing to keep the measurement stable.

Conventional x-ray

Measures TOTAL loading weight, cannot see the Pt or Ir directly.

A catalyst indication is only offered by manually providing the catalyst loading % of the coating ink.

SCANTECH's XRT

The Scantech solution is used for any coating pattern and for 2-side coating applications.

The specialised solution (software & hardware) allows for customised scanning patterns to maximise and optimise the measurements for different coating patterns.

- ✓ Direct measurement of catalyst (Pt or Ir)
- ✓ High speed measurement
- ✓ High fidelity measurement
- ✓ Proven robust measurement



A WORLDWIDE GROUP



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