

## Hidden Analytical's HPR-40 DEMS System Breakthrough for Energy Storage Research

WARRINGTON, UK – July 26, 2023 - Hidden Analytical, a global leader in the development and manufacture of high-performance scientific instruments, today showcased how its groundbreaking HPR-40 Differentially Pumped Mass Spectrometer (DEMS) system is driving new frontiers in energy storage research.

The Hidden HPR-40 DEMS system provides a sophisticated solution for the real-time analysis of gases and volatile species evolved in electrochemical reactions, a crucial aspect of research in the field of energy storage. The system's ability to track minute chemical changes during reactions is contributing significantly to the development of next-generation batteries, fuel cells, and other energy storage technologies.

"Our HPR-40 DEMS system is optimised to deliver both precision and sensitivity, enabling researchers to gain detailed insights into the behaviour of gases and volatile species during the electrochemical reactions that underpin energy storage systems," said Dr. Dane Walker, Technical Marketing Manager at Hidden Analytical. "This advanced level of understanding is helping to drive the discovery and development of innovative energy storage technologies."

The Hidden HPR-40 DEMS system has been developed with an emphasis on versatility and adaptability. The instrument's broad mass range capability, combined with its fast response times, provides an exceptionally detailed analysis in real-time. It is compatible with a wide variety of electrochemical cells, thereby meeting the needs of researchers across diverse energy storage applications.

Incorporating proprietary Hidden Quadrupole Mass Spectrometer technology and advanced differential pumping, the HPR-40 DEMS system ensures the highest levels of accuracy and sensitivity. These unique features, coupled with its intuitive operation, make the HPR-40 DEMS a powerful tool for both basic research and development, and for product performance evaluation.

"As energy storage technology evolves, we're proud to provide the advanced analytical solutions that researchers need to keep pace with this rapidly changing field," Dr. Walker added. "The HPR-40 DEMS system exemplifies our commitment to enabling our customers to accelerate their discovery and innovation in the vital area of sustainable energy."

Hidden Analytical invites researchers and scientists working on energy storage technologies to explore the advantages offered by the HPR-40 DEMS system in more detail. Please visit [www.hiddenanalytical.com](http://www.hiddenanalytical.com) for further information or email [info@hidden.co.uk](mailto:info@hidden.co.uk).

### About Hidden Analytical

Hidden Analytical has been a leading innovator in the design and manufacture of scientific instrumentation for research, development and production applications for over 40 years. Their solutions address real-world applications in a diverse range of industries including energy, defence, metallurgical, pharmaceutical, biomaterial, oil, materials, catalysis and many more.

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