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IONICON launches Autosampler for high throughput PTR-MS measurements

Automated real-time VOC trace gas analysis of large sample quantities with IONICON PTR-MS

The real-time measuring capability of a [PTR-MS](#) trace gas analyzer is ideally suited for continuous VOC monitoring but also for rapid analysis of discrete samples within seconds. The new IONICON [autosampler](#) for PTR-MS enables automated screening of hundreds of sample vials. This fully integrated, high throughput system for VOC head-space analysis, drastically reduces processing cost for larger batches of samples and provides consistent high data quality.

The IONICON Autosampler

We have modified a reliable, industrial autosampler for optimal interaction with IONICON PTR-MS instruments. It can be loaded with multiple sample trays carrying up to 270 vials (20ml) simultaneously, for liquid, solid, or gas samples. The bench-top autosampler allows for static and dynamic head-space measurements.

A custom-made software controls the sampling process as well as the PTR-MS measurement for integrated and consistent data. Several pre-programmed sample treatment and analysis protocols can be further optimized for specific application.

Benefits

Hundreds of samples can be processed literally overnight due to the high speed of the IONICON PTR-MS technology complemented by an autosampler, resulting in high throughput and increased capacity utilization. Especially customers that routinely require the analysis of large sample batches will greatly benefit from this efficiency and much reduced costs per sample.

Nevertheless, also for smaller batches the highly standardized sampling procedure and integrated data output, improves the quality of the results, simplifies data processing and leaves the scientists free to concentrate on what really matters.



About IONICON

IONICON is the world's leading manufacturer of real-time trace gas analyzers for low concentrated volatile organic compounds (VOCs) monitoring, based on the unique Proton Transfer Reaction – Mass Spectrometry (PTR-MS) technology, since 1998.

The scientific main application areas include atmospheric chemistry, environmental research, exhaust analysis, food and flavor science, illicit substances detection and breath analysis.

In addition to laboratory instruments, IONICON also produces specialized VOC monitoring systems for industrial applications such as the semiconductor industry or for field deployment. A strong technical background allows the company to build its own time-of-flight mass spectrometers, sampling and calibration systems for its analyzers, fast gas-chromatography and auto-sampling modules incl. various multiplexing set-ups.

IONICON hosts an application lab at its headquarters in Innsbruck, Austria offering analytical services to its customers, from initial sample tests to long-term studies.

Learn more about IONICON [here](#).

Resources

Download a high-resolution [product picture](#) of the IONICON autosampler.

Credit: © IONICON Analytik GmbH

Product website (incl. video): <http://www.ionicon.com/product/accessories/autosampler>

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