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IONICON presents the revolutionary PTR-TOF 6000 X2 trace gas analyzer

Next generation high-end PTR-TOFMS from the market leader for real-time VOC monitoring

[IONICON Analytik](#), the Austrian based leading manufacturer of real-time trace VOC analyzers introduces a new compact, ultra-sensitive and high-resolution PTR-TOF instrument.

The [PTR-TOF 6000 X2](#) is the first instrument in IONICON's portfolio based on the new high-resolution release of the "ioniTOF" platform and our PTR technology in combination with the new "X2" features. X2 comprises the latest generation of performance tools incl. the [ION-BOOSTER funnel](#) as well as the [hexapole ION-GUIDE](#) for the ultimate PTR-TOFMS experience.

The ion funnel focuses the ions into the hexapole ion guide which results in nearly lossless transmission of an extremely focused ion beam into the TOF mass spectrometer. This increases the sensitivity dramatically and also improves the instrument's mass resolving power.

The ioniTOF time-of-flight mass spectrometer platform

Since the market introduction of the [PTR-TOF 1000](#) in 2014, [PTR-TOF 1000 ultra](#) and [PTR-TOF 4000](#) in 2016, IONICON engineers have continuously improved and perfected the "[ioniTOF platform](#)". The flexible, customizable and reliable Time-of-Flight mass spectrometer is a major success for IONICON with already close to 50 units built, used in-house for IONICON's renowned PTR-TOF series manufacturing and now also available to OEM or academic experimental research customers. IONICON's product design and in-house production allow for decreasing size, weight and costs with increased overall performance. An emphasis is given to the improved user experience due to the focus on one fully integrated hard- and software solution.

"I am proud to announce that all new IONICON PTR-TOF instruments are now exclusively based on the ioniTOF platform. This is a tremendous achievement of our development team and has enormous added value for our customers", IONICON CEO Lukas MÄRK comments.

The clients benefit from an ecosystem that has been designed for reliability, compactness but also affordability. All development efforts of the company are now streamlined and customers can rely on upgradeability and continuous R&D efforts leading to add-ons, options, software and new exciting instrument combinations based on this platform.

Various PTR-TOF systems with a built-in ioniTOF mass spectrometer have already been tested for its robustness and reliability in the field e.g. on airborne campaigns aboard NASA's atmospheric research aircrafts for measuring air pollution in the atmosphere ([KORUS-AQ](#) or [DISCOVER-AQ](#)).



These research and development activities received support from the Austrian Space Applications Programme (ASAP) of the Austrian Research Promotion Agency (Österreichische Forschungsförderungsgesellschaft, FFG).

About IONICON

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

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

In 2016, the company celebrated its 300th sold PTR-MS instrument.

Learn more about IONICON [here](#).

Resources

PTR-TOF 6000 X2 Product Website: <http://www.ionicon.com/product/ptr-ms/ptr-tofms-series/ptr-tof-6000-x2>

PTR-TOF 6000 X2 Product Picture. (Source: IONICON; Suggested caption: The new IONICON PTR-TOF 6000 X2 Compact High-Performance PTR-TOF-MS - Trace VOC Analyzer)

High resolution: http://www.ionicon.com/sites/default/files/uploads/images/PTR-TOF_6000.png

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