



Press release – Innsbruck - 18. February 2014

IONICON launches the new super-fast PTR-TOF 1000 trace gas analyzer

The smallest, lightest and most affordable time of flight based PTR-MS ever developed.

IONICON Analytik, the Austrian based leading manufacturer of PTR-MS real-time trace gas VOC analyzers, complements its successful [PTR-TOFMS series](#) with an affordable compact instrument that is the smallest, lightest and fastest system ever constructed by its engineers. The [PTR-TOF 1000](#) has already been successfully deployed on NASA flight measurement campaigns.

Since 2007 when IONICON first launched a high-resolution PTR-TOFMS instrument (PTR-TOF 8000), the company had tremendous success with its PTR-TOFMS series, selling more than 50 units to leading scientists, institutions and multinational corporations.

Continuous innovation and engineering has now culminated in the new PTR-TOF 1000, by far the most affordable, smallest and most lightweight system available on the market.

Prototypes of the PTR-TOF 1000 have been extensively tested by leading scientists in the field. Among other missions, a system modified for use on aircraft was deployed by a team of the University of Innsbruck's Institute for Ion and Applied Physics on [NASA atmospheric research aircrafts for measuring air pollution in the atmosphere](#).

The instrument demonstrated its reliability and robustness but also its remarkable technical abilities and speed during various international campaigns and is ideally suited for analysis of VOCs at a very high time resolution.

The PTR-TOF 1000 is an IONICON PTR-TOFMS instrument with dimensions, weight and price usually restricted to high-end quadrupole PTR-MS, but having all the advantages of the more powerful time of flight based solutions: the entire mass range in split-seconds and higher resolution for better separation and identification.

Visit IONICON's booth at PITTCON and Analytica to learn more:

[Pittcon](#), Chicago 2. – 6. March, booth # 1619

[Analytica](#), Munich, 1. – 4. April, booth # A2.508B – official launch event of PTR-TOF 1000

About IONICON

IONICON Analytik GmbH was founded in 1998 to commercialize the unique [Proton Transfer Reaction – Mass Spectrometry \(PTR-MS\)](#), recently adding the proprietary [Selective Reagent Ionization – Mass Spectrometry \(SRI-MS\)](#) technology.

Over 250 leading scientists, institutions and multinational corporations are among IONICON's customers. They rely on [PTR-MS instruments](#) for results in real-time at one out of a trillion parts (LoD < 1 pptv) but without time-consuming sample preparation procedures.



Learn more about IONICON [here](#).

The development of the new high-tech instrument was supported by the Austrian Federal Ministry for Transport, Innovation and Technology (BMVIT) within the Austrian Space Application Programme (ASAP 8).

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