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IONICON launches the PTR-QMS 500 series – a new generation of ultra-sensitive PTR-MS online mass spectrometers for VOC analysis

IONICON is presenting the new PTR-QMS-500 series to the analytical and laboratory market: highest performance and lowest detection limits (< 1 pptv) for VOCs detection and monitoring based on Proton Transfer Reaction – Mass Spectrometry.

The PTR-QMS 500 series is the 4th generation of PTR-MS systems developed and commercialized by IONICON Analytik GmbH, Innsbruck Austria.

The High-Sensitivity PTR-QMS 500 and its sister instrument, the PTR-QMS 300 are the successor of the world's bestselling PTR-QMS instrument series, the IONICON High-Sensitivity PTR-MS and Standard PTR-MS.

IONICON CEO Lukas MÄRK explains the idea behind many improvements of the new flagship quadrupole-based PTR-MS series: "We wanted to create a new generation of instruments providing the highest sensitivity available in the PTR-MS market but also incarnating new features and improvements we developed listening to the needs and feedback of our customers."

The PTR-QMS 500 series is engineered to again lead the field of quadrupole based PTR-MS systems and outpace everything that existed in this market before. Among the many improvements, IONICON engineers were able to reduce the size and weight of the instruments, but nevertheless improved maintainability. A touchscreen display is now common to all IONICON instruments, a new heating chamber layout (easier access to ion source and space for extensions) is implemented and new control electronics (fully software controlled) as well as more interfaces (I/Os) are available. Most outstanding however is the new IONICON ULTRA-PURE ion source that delivers a precursor ion intensity that was never seen before and therefore the High-Sensitivity PTR-QMS 500 continuously quantifies VOCs in lowest possible concentrations touching even the ppqv-regime.

IONICON is the world's leading producer of on-line VOC detectors with market-leading, on-line and real-time, single-digit pptv-level detection limits using the unique proton transfer reaction – mass spectrometry PTR-MS technology. Since 1998 IONICON is serving leading scientists with VOC monitoring and quantification instruments in many different areas including environmental research, pollution monitoring, atmospheric chemistry, food & flavour science and illicit substances detection.

The IONICON product range comprises the PTR-QMS Series (IONICON High-Sensitivity PTR-QMS 500 with its market-leading detection limit of < 1 pptv; the IONICON PTR-QMS 300, a very robust and small VOC monitoring system with a very advantageous price) and the PTR-TOFMS Series (IONICON PTR-TOF 8000



providing a mass resolution of up to 8000 $m/\Delta m$ and the IONICON PTR-TOF 2000 with its detection limit < 5 pptv).

IONICON also produces special monitoring solutions for various industrial applications, has a strong in-house R&D department and is partner of many international research projects with renowned academic partners.

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