



Bruker Announces the New S2 PUMA™ Bench-top X-ray Fluorescence Spectrometer for Elemental Analysis

NEW ORLEANS, Louisiana, – March 8th, 2015 – At Pittcon 2015, Bruker is proud to announce the S2 PUMA™ bench-top multi-element analyzer. The new S2 PUMA is an energy-dispersive X-ray fluorescence spectrometer (EDXRF) for quantitative analysis of the elemental composition of a large variety of samples from pressed pellets, fused beads, powders to liquids and even large and bulky samples. The S2 PUMA complements the well-established S2 RANGER in Bruker's bench-top XRF product offerings.

With the S2 PUMA Bruker introduces HighSense™ technology for EDXRF. Low detection limits and short measurement times are achieved using a high-power X-ray tube. Best-in-class detection of light elements is realized by the combination of optimized excitation, detection and vacuum mode. Expensive purge gases like helium can be avoided, assuring low cost of ownership.

The compact and robust design of the S2 PUMA matches the needs of industrial customers in geology, minerals and mining, cement production, metals processing, petro-chemistry and consumer product safety applications. High sample throughput demands are satisfied with either the 20-position EasyLoad™ sample tray or via the automation interface to a conveyor belt. The S2 PUMA is easily integrated into existing or new lab automation systems. Customers with lower sample throughput requirements will benefit from the economic single-loader option of the S2 PUMA.

In addition to its perfect fit for industrial applications, the new S2 PUMA is also a very valuable and flexible tool for the academic and research environment, because it accepts a wide range of sample types, shapes, and sizes. The large flat sample table option accommodates samples up to 16 by 16 inches (~ 40 by 40 cm). The measurement spot can also be changed from a couple of centimeters down to a few millimeters to allow for measurements of small spots on the samples. A video camera is provided for exact sample positioning, and the sample image can be saved along with the XRF measurement data and results for easy reference.

All users will enjoy the instrument's ease of use. The S2 PUMA comes with an integrated computer and touchscreen without the need for an external PC. Data input and system operation is intuitive with the multilingual TouchControl™ user interface. The S2 PUMA is equipped with a standard TCP/IP port for extended networking needs, data export and interfacing.

“With the S2 PUMA, Bruker offers the most versatile energy-dispersive XRF bench-top spectrometer available on the market. The S2 PUMA can be optimally configured for high sample throughput, automated measurement processes, large samples, small spot sizes, and state-of-the-art light element detection - all integrated into a robust, industrial-grade housing. Key benefits are the rugged design, the large sample magazine, and the low cost of ownership.



Customers responsible for consumer product safety will find the S2 PUMA's option to measure large products and pieces non-destructively extremely useful," stated Frank Portala, XRF Product Manager of Bruker AXS.



S2 PUMATM energy-dispersive X-ray fluorescence spectrometer

About Bruker Corporation

For more than 50 years, Bruker has enabled scientists to make breakthrough discoveries and develop new applications that improve the quality of human life. Bruker's high-performance scientific research instruments and high-value analytical solutions enable scientists to explore life and materials at molecular, cellular and microscopic levels.

In close cooperation with our customers, Bruker is enabling innovation, productivity and customer success in life science molecular research, in applied and pharma applications, in microscopy, nano-analysis and industrial applications, as well as in cell biology, preclinical imaging, clinical research, microbiology and molecular diagnostics. For more information, please visit: <http://www.bruker.com>.

For more information on the S2 PUMA, please visit: www.bruker.com/s2puma

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