

## Press Release

### Rigaku Introduces On-line Sulfur Gauge at PittCon 2010

Austin, TX – March 1, 2010. Applied Rigaku Technologies, Inc. is pleased to introduce the new Rigaku NEX XT on-line sulfur analyzer at the 2010 Pittsburg Conference (PittCon) in Orlando, Florida. On exhibit at PittCon Booth #1769, this product represents the next generation of process gauge for high-level sulfur measurement (0.02% to 6% S) of crude, bunker fuel, fuel oils, and other highly viscous hydrocarbons, including residuums.

This versatile, compact and robust X-Ray Transmission (XRT) process gauge is specifically optimized for the sulfur analysis needs of refineries, pipelines, blending operations, bunkering terminals and other storage facilities. Applications include bunker fuel blending to meet MARPOL Annex VI sulfur restrictions, interface detection of different grade fuels delivered via pipelines, refinery feedstock blending and monitoring, and the quality monitoring of crude at remote collection and storage facilities.

The new Rigaku NEX XT system is faster, more sensitive and far more compact than competitive systems and provides continuous, reliable detection of sulfur at pressures up to 1480 psig and 200°C. The NEX XT can operate as a stand-alone analyzer or provide real time closed loop control when tied into a blending or plant wide automation system. Based on the X-ray Transmission (XRT) measurement technique, the hydrocarbon stream travels through a flow cell where the sample is illuminated using a low power X-ray tube. A detector on the opposite side of the flow cell measures transmitted X-rays. Signal intensity is inversely proportional to the sulfur concentration. The system contains no radioisotope sources and requires no routine maintenance.

Among its other key features are a simplified user interface, reduced standards requirement, automatic density compensation, automatic water compensation, password protection, and standard platform for communicating sulfur, density, and water content to a plant-wide DCS. Due to its unique design and robust construction, sample conditioning and recovery systems are typically not required.

#### About Rigaku

Since its inception in Japan in 1951, Rigaku has been at the forefront of analytical and industrial instrumentation technology. Rigaku and its subsidiaries form a global group focused on life sciences and general purpose analytical instrumentation. With hundreds of major innovations to its credit, Rigaku and its subsidiary companies are world leaders in the fields of small molecule and protein crystallography, X-ray spectrometry and diffraction, X-ray optics, as well as semiconductor metrology. Rigaku employs over 1,100 people globally and its products are in use in more than 70 countries – supporting research, development, production control and quality assurance activities. Throughout the world, Rigaku continuously promotes partnerships, dialog, and innovation within the global scientific and industrial community.

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