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Emerson introduces world's first hybrid TDL/QCL continuous gas analyzer

Rosemount™ CT5100 provides industry's most comprehensive gas analysis to ensure regulatory compliance and prevent costly fines or unexpected shutdowns

DATELINE, May 10, 2016 – Emerson today announced the release of the Rosemount™ CT5100 continuous gas analyzer, the world's only hybrid analyzer to combine Tunable Diode Laser (TDL) and Quantum Cascade Laser (QCL) measurement technologies for process gas analysis and emissions monitoring. The CT5100 is the latest offering in the Emerson CT5000 series, providing the most comprehensive analysis available as it can detect down to low ppm level for a range of components, while simplifying operation and significantly reducing costs. Unlike traditional continuous gas analyzers, the CT5100 can measure up to 12 critical component gases and potential pollutants simultaneously within a single system – meeting local, state, national, and international regulatory requirements.

The CT5100 operates reliably with no consumables, no in-field enclosure, and a simplified sampling system that does not require any gas conditioning to remove moisture. The new gas analyzer is ideally suited for process gas analysis, continuous emissions monitoring, and ammonia slip applications.

"The increase in regulatory requirements worldwide along with the decrease in experienced personnel in industrial plants have paved the way for the emergence of a new generation of faster, more accurate, and easier-to-use measurement technologies," said Ruth Lindley, product manager for QCL analyzers at Emerson. "The CT5100 represents an important next step in that direction, providing unmatched sub-second response time for precise, reliable measurement of complex gases and emissions to ensure regulatory compliance and prevent costly fines or unexpected shutdowns."

The CT5100 is a unique combination of advanced technology high reliability, and rugged design. Its patented "laser chirp" technique expands gas analysis in both the near- and mid-infrared range, enhancing process insight, improving overall gas analysis sensitivity and selectivity, removing cross interference, and reducing response time. The laser chirp technique produces sharp, well-defined peaks from high resolution spectroscopy that enable specificity of identified components with minimum interference and without filtration, reference cells, or chemometric manipulations.

“The CT5100 was designed to give the plant more with less,” said Dave McMillen, North America business development manager, ”Solid-state components and the unique modular design with up to six lasers inside a single enclosure simplifies startup and commissioning and reduces field maintenance costs during the analyzer’s lifecycle.”

For more information about the Rosemount™ CT5100 continuous gas analyzer, go to www.Rosemount.com/GasAnalysis

About Emerson Process Management
Emerson Process Management (www.EmersonProcess.com), an Emerson business, is a leader in helping businesses automate their production, processing and distribution in the chemical, oil and gas, refining, pulp and paper, power, water and wastewater treatment, mining and metals, food and beverage, life sciences and other industries. The company combines superior products and technology with industry-specific engineering, consulting, project management and maintenance services. Its brands include Bettis™, DeltaV™, Fisher™, Micro Motion™, Ovation™ and Rosemount™.

About Emerson
Emerson (NYSE: EMR), based in St. Louis, Missouri (USA), is a global leader in bringing technology and engineering together to provide innovative solutions for customers in industrial, commercial, and consumer markets around the world. The company is comprised of five business segments: Process Management, Industrial Automation, Network Power, Climate Technologies, and Commercial & Residential Solutions. Sales in fiscal 2015 were $22.3 billion. For more information, visit Emerson.com.