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Yokogawa Real Time Gas Analyzer Breakthrough Design Drastically Reduces CAPEX and OPEX in Industrial Process Heating Installations

High-speed analysis enables live process and safety control, energy efficiency and yield improvements, as well as air emissions reductions

Yokogawa Corporation of America has released the TDLS8100 probe-type Tunable Diode Laser Spectrometer (TDLS). Industrial process heating operations – fired heaters, boilers and furnaces – account for approximately 70% of the manufacturing sector’s process energy consumption and constitute a major process safety risk and source of greenhouse gas emissions. The TDLS 8100 enables operators to make a step change in safety improvements, emission reductions, optimization of fuel efficiency and yields, as well as prolong the life of their assets.

A flagship product in Yokogawa’s OpreX Analyzers lineup, the TDLS 8100 makes quick and accurate in situ gas concentration measurements, eliminating the requirement for sampling and conditioning components. This results in reduced installation and maintenance costs. The instrument is field-serviceable with no consumables or calibration required. The single flange design allows installation where cross-duct TDLS technology was previously not feasible due to accessibility, obstructions or budget constraints.

The energy and chemical industry must embrace triple bottom line performance to drive sustainability targets and outcomes. This involves placing equal importance on people, the environment and profits, in order to drive sustainability outcomes which are existential to everyone. The TDLS 8100 makes plants significantly safer, improves resource efficiency, reduces air emissions and contributes to enhanced asset profitability.

“The energy transition, which has already begun, is the most profoundly disruptive issue facing the energy and chemicals industry,” comments Tom Quinlan, vice president of Yokogawa Corporation of America. “A smarter planet requires smarter plants; the TDLS 8100 is an integral measurement device that drives competitive advantage in a holistic and sustainable way.”

For use in safety instrumented systems, the TDLS8100 analyzer is SIL2 compliant. It is also explosion-proof for Division 1 and Zone 1 installations. Further information on Yokogawa's TDLS 8100 probe-type TDLS analyzer can be found at: <https://www.yokogawa.com/us/solutions/products-platforms/process-analyzers/gas-analyzers/tunable-diode-laser-spectrometer/probe-type-gas-analyzer-tdls8100/>

About Yokogawa

Founded in 1915, Yokogawa engages in broad-ranging activities in the areas of measurement, control, and information. The industrial automation business provides vital products, services, and solutions to a diverse range of process industries including oil, chemicals, natural gas, power, iron and steel, and pulp and paper. With the life innovation business, the company aims to radically improve productivity across the pharmaceutical and food industry value chains. The test & measurement, aviation, and other businesses continue to provide essential instruments and equipment with industry-leading precision and reliability. Yokogawa co-innovates with its customers through a global network of 113 companies spanning 60 countries, generating US\$3.6 billion in sales in FY2018. For more information, please visit www.yokogawa.com.

About Yokogawa Corporation of America

Yokogawa Corporation of America is a wholly-owned subsidiary of Yokogawa Electric Corporation. We partner and co-innovate with the North American energy and chemical industries to achieve optimum operability and competitiveness. With a 60-year track record in North America delivering leading-edge measurement, control and information solutions, the business is headquartered in Houston, TX and is supported by other domestic manufacturing and service locations across the U.S, Canada and Mexico. Our expansive portfolio of state-of-the-art manufacturing, engineering and service solutions address current demands of clients' operations while our innovate-forward philosophy anticipates and solves tomorrow's challenges. For more information, please visit www.yokogawa.com/us

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