

Emerson provides X-STREAM™ analyzers to Roplex Engineering to monitor vapor recovery units

Rosemount Analytical X-STREAM analyzers will monitor unit effectiveness and provide additional levels of safety.



SOLON, OHIO (April 2007) – Emerson Process Management is providing Rosemount® Analytical X-STREAM™ Process Gas analyzers to Roplex Engineering, a leading provider of Vapor Recovery Units (VRUs) and services to petroleum distribution terminals. The explosion proof, dual channel X-STREAM infrared analyzers are being used to measure carbon monoxide and butane, monitoring the effectiveness of the VRU in removing all the hydrocarbons and thereby adding additional levels of safety at terminals.

"A prime consideration for these applications is accuracy and reliability," said John Robson, managing director of Roplex Engineering. "We used to purchase cheaper analyzers with electrochemical sensors, but we find that the X-STREAM's proven infrared

technology provides a superior solution, something our customers will readily acknowledge."

VRUs have long been installed on petroleum tanker loading terminals in response to legislation limiting the amount of hydrocarbon vapors being emitted to the atmosphere. When tankers arrive at the refueling points they are empty of fuel but full of air saturated with vapor, up to 40% by volume. As the tanker is filled, the expelled vapor is collected and fed to a VRU where the hydrocarbons are removed before the air is vented to atmosphere.

A typical VRU has two scrubbers both containing activated carbon. Installed in parallel, the scrubbers are routinely switched. One adsorbs the hydrocarbons and then, once saturated, the beds switch and the hydrocarbons are removed and returned to liquid form. The X-STREAM analyzers detect carbon monoxide in the gas exiting the absorber bed — a presence of the gas provides an early indication of an upset condition that has the potential to become a hazard. The second measurement, butane, is made on the final vent-to-atmosphere to ensure that the VRU is working effectively.

The X-STREAM analyzers utilize appropriate non-dispersive infrared (NDIR), ultraviolet (UV) spectroscopy as well as paramagnetic and thermal conductivity detectors to detect oxygen, carbon monoxide, carbon dioxide, hydrogen, or other gases. X-STREAM analyzers offer single or dual channel analysis and provide real-time control to help customers fine-tune their processes for increased productivity and profitability.

With EExd Flameproof or EExp ATEX certification the X-Stream Analyzer is rated to IP66/NEMA 4X for field mounting and is suitable for operating temperatures from -20 to +50 deg C. A 19" rack mounting version is also available.

About Rosemount Analytical

Rosemount Analytical (www.RAHome.com) is a division of Emerson Process Management. The Gas Division in Solon, Ohio, designs and manufactures analyzers and systems for Combustion Analysis and Control, Continuous Emissions Monitoring Systems (CEMS), In-situ Oxygen and Combustibles Analyzers, Carbon Monoxide Analyzers, Opacity Monitors, and a full array of Single and Multi-component Process Gas Analyzers.

About Emerson Process Management

Emerson Process Management (www.emersonprocess.com), an Emerson business, is the leader in helping

businesses automate their production, processing and distribution components in the chemical, oil and gas, pulp and paper, food and beverage, and pharmaceutical industries, as well as others. The company combines superior products and technology with industry-specific engineering, consulting, project management and maintenance services. Its brands include: Rosemount Analytical, Fisher-Rosemount, Performance Solutions, AMS, Bettis, DeltaV™, El-O-Matic, Intellution, Micro Motion, PlantWeb™, and Westinghouse Process Control.

About Emerson

St. Louis-based Emerson (www.emerson.com) is a global leader in bringing technology and engineering together to provide innovative solutions to customers in process control; electronics and telecommunications; industrial automation, heating, ventilating and air conditioning, and appliance and tools. Sales in fiscal 2006 were \$24 billion.