ValvesSensorsSystems

measurIT technologies

<< Home Page
<< Newsletters Archives

NL-09-I-2008

Gas Flow Monitoring

FlexMASSter ST98 Flow Meter

Application

Pharmaceutical, chemical, refining, semiconductor, remediation and other industries that are required to control volatile organic compound (VOC) emissions and hazardous air pollutants (HAP) rely heavily on Thermal Oxidizer systems.

These systems destroy objectionable solid, liquid or vapor hydrocarbons contained in industrial waste streams. Thermal Oxidizers are designed to use heat energy to convert these hydrocarbon contaminants to carbon dioxide and water vapor, and also convert contaminated metals to their oxide form under controlled conditions. Many waste materials are rich in hydrocarbons and require additional air injection into the oxidizer.

Challenge

Thermal Oxidizer systems must be designed to maximize fuel efficiency while maintaining maximum thermal oxidization performance by properly measuring and controlling fuel flow to the burners, and air injection to prevent overheating and thermal damage or explosions.

In order to ensure accurate, reliable measurement and control of air and natural gas flow of the Thermal Oxidizer, the use of flow meters to accurately and effectively measure the wide range parameters are involved.

Solution

FCI's **ST98 FlexMASSter®** thermal mass flow meters are typically selected as the ideal solution for these applications.

The FCI **ST98 FlexMASSter®** eliminates pressure drop typically experienced by orifice plates. It also features wide flow ranges (100:1) and exceptional low flow sensitivity.

FCI's thermal mass flow meters are calibrated in world-class calibration facility that use the actual air/gas composition, pressure and temperature of the application installation to insure optimum instrument accuracy and repeatability.

FCI flow meters measure "true" mass flow using a single instrument thereby eliminating the additional need and cost for pressure and temperature instrumentation.

Read more about **FCI Flow Meters**
at **www.measurIT.com**

Measuring Levels in Food and Beverage Industry

A major snack food manufacturer in the northeast USA installed a **KM26 Magnetic Level Gauge** to measure levels of corn based snacks. This plant has several stainless steel tanks without level controls, point or continuous level.

The plant wanted to measure continuous corn oil level at 0.92 S.G., 110°F and at atmospheric pressure. Two of the three tanks were about 25 feet high and one was about 15 feet high. The only customer preference was to not have a probe going all the way into the tank.

The customer really liked the fact that the **KM26 Magnetic Level Gauge** was mounted outside of the vessel, was easy to install and could have an easily seen display. The customer figured that the total cost of installation was still less than that of other less expensive level controllers. There are many more tanks there that will need to be instrumented..

Read more about
Level Gauges & Transmitters
at **www.measurIT.com**

OUR PRODUCTS

Systems of Valves:
Tideflex Mixing Systems
Tideflex Effluent Diffusers

Valves:
Water Control Valves - **SINGER**
Pinch Valves (manual, air-operated)
All-rubber Check Valves - **TIDEFLEX**
Flow Regulators
Rubber Expansion Joints

Sensors:
Oil Spill Detectors - **OilSpy**
Flow Conditioners - **VORTAB**
new items! Flow Meters - **FCI** (Thermal Dispersion)
new items! Flow Meters - **FLEXIM** (Ultrasonic)
new items! Flow Meters - **ACCELABAR** (Differential Pressure)
Flow Switches
Pressure & Temp. Switches
new items! Pressure Sensors
new items! Level Gauges & Transmitters
pH Sensors
Suspended Solids & Turbidity Sensors
Humidity & Lux Monitoring

CONTACT US

our new contact details:

MeasurIT Technologies Ltd.
Craan, Craanford,
Gorey, Co. Wexford, Ireland

phone: +353 (0)53 942 8962
fax: +353 (0)53 942 8963