

Application Note

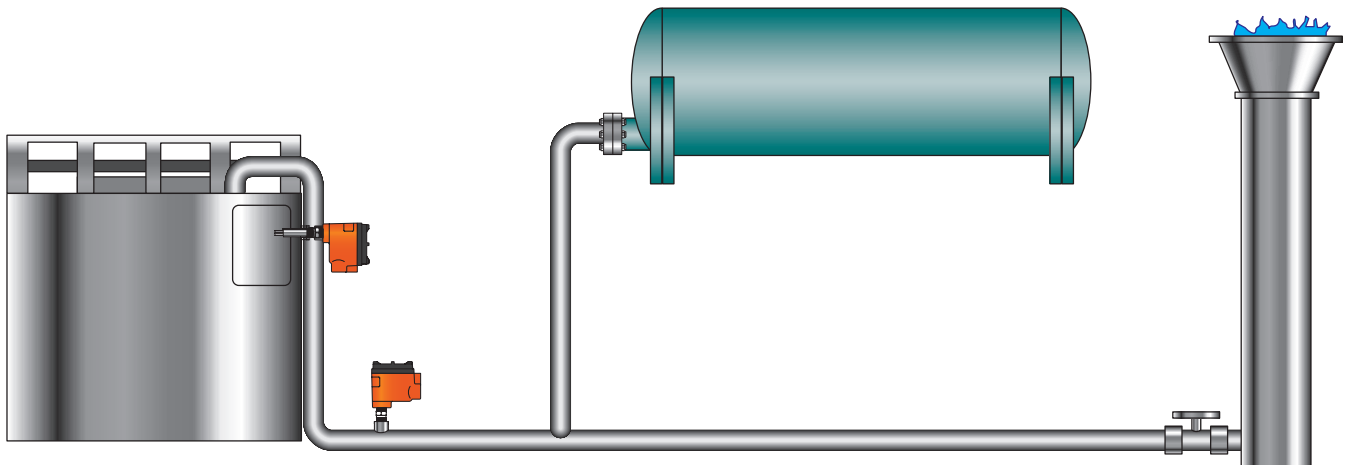
Application Note: 062706

KAYDEN
I N S T R U M E N T S

Monitoring Digester Gas Flow - Water / Wastewater Treatment

Application: Monitor Gas Flow in a Digester

Product: Kayden CLASSIC 800 Series Thermal Dispersion Flow, Level, Interface & Temperature Switch & Transmitter



Description:

Accurate and repeatable monitoring of the gas flow in anaerobic digester systems is critical to proper operations in any wastewater treatment plant.

Problem:

It is extremely difficult to find one device that is versatile enough to perform in multiple applications and rugged enough to withstand the conditions in a WWT plant. Most WWT plants have several digesters, pumps, flocculant / sludge tanks, and sluice lines, each of which requires flow / level instrumentation that will resist damage caused by high / low temperatures, humidity, corrosion, and contamination.

Most flow / level instruments are either too expensive, too difficult to install, or are damaged when the probes are coated by the material / media. For this reason the E & I personnel in a typical WWT plant are forced to “adapt” and maintain an array of flow and level instrumentation.

Solution:

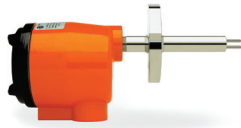
Kayden thermal dispersion switches perform reliably in applications where coating / contamination cause other instruments to fail. The Kayden CLASSIC 800 switch may be set to alarm either on flow (increasing flow) or no-flow (decreasing flow) with two independent relay contacts and 4-20mA analog output. The power, range, and set points may be independently and incrementally set for a wide range of response times and to eliminate “nuisance alarms”.

Kayden switches are versatile, easy to set up and require very little maintenance (no calibration is ever required). The electronics modules are interchangeable and 100% field replaceable. Every Kayden electronics module is built to be configured by the user for flow, level, interface and/or temperature with air, gases, liquids or slurries. All units feature automatic, continuous self-diagnostics with auto-alarm function.

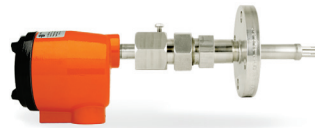
Applicable CLASSIC™ 800 Models



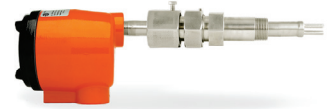
CLASSIC™ 810



CLASSIC™ 812



CLASSIC™ 814



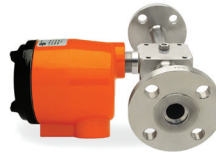
CLASSIC™ 816



CLASSIC™ 828



CLASSIC™ 830



CLASSIC™ 832

Ordering Information

Order Online

kayden.com Utilize our eCommerce website to order your Kayden products from your Authorized Kayden Distributor, or directly from Kayden. Please know that your local Authorized Distributor is supported whether you place orders online, via telephone, or email.

Contact Us

Telephone

1 (403) 253-1423
001 403 253-1423

Fax

1 (403) 255-0042 North America
001 403 255-0042 International

E-Mail

info@kayden.com

Web

kayden.com

Hours Monday – Friday 8:00 a.m. – 5:00 p.m. MST

Mailing Address 3364–114th Avenue S.E., Calgary, Alberta, Canada T2Z 3V6

Contact a Local Distributor

Distributors

Visit kayden.com to find a local Distributor near you. Distributors provide local inventory, technical support and service.



For more information about the CLASSIC Series or any of Kayden’s other products, please visit kayden.com