

## Entrained Gas Management EGM

The Coriolis method, a technology used to measure mass flow, is a growing market for Krohne, despite it being a relatively new technology. Added to this is a specifically patented algorithm unique to KROHNE, known as Entrained Gas Measurement (EGM).

Since the introduction of EGM technology for all Optimass Coriolis mass flowmeters in 2012, Optimass flowmeters have proven themselves in 2-phase flow and batch/loading/empty-full-empty applications in various industries, such as:

- Food & Beverage: raw milk, ice cream, dough, syrup, tomato concentrate, spinach, meat, margarine, mayonnaise, meat, syrup, coffee extract, coolants, sugar concentrates and molasses
- Chemical: hydrogen peroxide processing, viscous monomers/polymers, liquid removal from stirred tanks, highly concentrated assets such as fuming HCl or HNO<sub>3</sub>, polyurethane foams, push to empty tanks
- Oil & Gas: drilling fluids, truck loading/offloading, well heads, tank management

The Optimass series offers continuous and repeatable mass flow and density measurement with 2-phase flows such as liquids mixed with gas, slurries with gases or highly viscous fluids with gas entrainments. Together with the indication or configurable alarm for the user, EGM can also be used to improve processes by identifying transient gas entrainments.

“KROHNE is one of the a select companies that offers a straight tube Coriolis meter which impacts on space consideration and therefore results in low installation costs,” says Clayton Duckworth, KROHNE National Sales Manager. “The main benefit of this type of technology is to calculate density, therefore enabling the client to send various product media through the same pipe.”

KROHNE’s mass flow meters are manufactured at their UK plant – a factory dedicated to manufacturing mass flow meters – thereby ensuring quality of the highest standard.

“At this stage Coriolis is one of the more costly technologies around for flow measurement, but it is an extremely accurate technology. It is however, becoming more popular and cost-effective as time goes on. KROHNE has been in South Africa for 25 years and is consistently growing in the African continent as the demand for this superior technology increases,” says Duckworth. “We have a full after sales service department; not only can local service teams go on site to assist with commissioning and configuration, but we can also verify our meters inline online, making our service turn around very short.”

KROHNE prides itself on difficult applications, engineering solutions according to customer requirements and continually ensuring quality and consistent measurement. KROHNE is a specialist in mass flow measurement with unsurpassed local support with offices in Cape Town, Durban and Johannesburg.

Email: [C.Duckworth@KROHNE.com](mailto:C.Duckworth@KROHNE.com)

Web: [www.za.krohne.com](http://www.za.krohne.com)

Tel.: 011 314 1391

