



Titan Enterprises Ltd.

Coldharbour Business Park
Sherborne, Dorset DT9 4JW

Tel: 01935 812790

Fax: 01935 812890

Email: sales@flowmeters.co.uk

www.flowmeters.co.uk

www.atratoflowmeters.co.uk

VAT No. GB 365 9701 23

PRESS ANNOUNCEMENT

Flowmeter Solutions for High-Speed Batch Dosing

Titan Enterprises

has published a white paper reporting on an investigation into the use of electronic flow meters in high-speed batching processes.

High-speed batch dosing

in filling lines, typically seen within the food, beverage and pharmaceutical industries, is a modern process that increases production throughput and efficiency, as well as saving on cleaning costs associated with traditional batching processes.

Historically, small turbine flowmeters

have satisfied markets where reasonable volume batching is used, such as beer wall dispensing or ultra-pure water dispensing. These flow measurement devices have excellent response times and are highly effective for low viscosity dosing systems. However, turbine flowmeters do have moving parts within the flow line which can limit

the life of the flow device due to mechanical wear and tear. Mechanical devices also require hygienic cleaning which adds to downtime and associated cost implications.

For processes requiring high-speed integrated batch dosing, ultrasonic flow meters, such as Titan's Atrato® flow meter, provide an easy-to-clean system with no moving parts. However, as with all electronic flow devices, there is a trade-off between response time and affordability.

Titan's white paper

highlights some of the issues raised when using electronic flow meters for high-speed batching. The aim of the investigative trials was to determine the optimum results for high-speed (at sub three second) batching using an electronic flow meter that can be achieved with an accuracy higher than $\pm 0.5\%$. Titan worked with their ultrasonic device, the **Atrato®**, to resolve these and achieve a cost-effective solution for high accuracy, rapid batch control.

Significant increases in high-speed batching performance

were shown using the Atrato® ultrasonic flowmeter, together with bespoke AI learning software, and an appropriate system set-up in laboratory conditions.

Neil Hannay,

Titan's Senior R&D Engineer, said "Our Research and Development is driven by helping our customers address challenges within their process systems. This could be enhancing existing technology and performance, trialling different materials and characteristics, or designing new flow measurement devices to meet specific customer needs and liquid flow conditions."

Through its on-going customer-focused R&D, Titan is optimising its flow meter product line to develop solutions for OEM customer applications and general industry systems.

To read the full article

on High-Speed Batching, visit <https://flowmeters.co.uk/flowmeter-solutions-for-high-speed-batch-dosing/>. For further information on the Atrato® ultrasonic flowmeter please visit <https://flowmeters.co.uk/atrato-ultrasonic-flowmeters/>. To discuss an optimised flow

measurement device for your liquid dispensing application please contact Titan Enterprises on +44 (0)1935 812790 or email sales@flowmeters.co.uk.

Drawing upon over 40-years of flowmeter innovation - Titan Enterprises Ltd is a leading manufacturer of high-performance flow measurement solutions, including the Atrato® & Metraflow® ultrasonic flowmeters, Oval Gear flowmeters, low flow Turbine flow meters and a flow instrument range. Titan's company philosophy of "pushing the envelope by trying to do things a little different and better" has resulted in sales of over 2 million flowmeters and components into 50 countries worldwide and a repeat purchase percentage of 95%. All flowmeters produced by Titan Enterprises are designed and manufactured to ISO 9001 and calibrated to an uncertainty of $\pm 0.25\%$.

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titanpr109-High Speed Batching

Illustrative image

