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PRESS ANNOUNCEMENT

Titan Explains the Factors that Determine Flow Meter Performance

Titan Enterprises has published a **new technical article** focusing on flow meter performance. The article discusses the factors involved in determining the overall **performance of pulse output turbine flow meters** and how each factor influences the accuracy of flow measurement.

Flowmeters have become essential measuring devices used in a vast array of different industries. From commercial applications measuring the fuel feeding industrial boilers, for flow monitoring of lubricant supply lines for wind turbines, to dosing chemicals for agricultural sprays. Domestically, flow meters are installed to manage the dispensing of beer or coffee and built into washing machines and dishwashers to meter efficient water usage.

Turbine flow meters are invaluable measurement tools, and their repeatability and linearity are the key elements that determine the flowmeter's performance and overall accuracy. Both the mechanical properties of the flow meter and the physical properties of the fluid combine to influence the general performance of the flow measurement device.

Terms synonymous with calibrating flow meters – the K-Factor, calibration uncertainty, repeatability, accuracy and linearity – are explained. The technical article discusses the

relationship between all these flow factors and how they each influence the overall performance of a flow meter.

Whereas turbine flow meters, such as Titan's Beverage flow meter and 800 series, offer the high level of repeatability and reliability required for accurate batch delivery systems, Titan's **Atrato®** and **Metraflow®** ultrasonic flow sensors and the larger oval gear flow meters, are highly accurate over wider flow ranges, especially with viscous liquids such as oils.

Neil Hannay, Senior R&D Engineer with Titan Enterprises, suggests: "When customers are deciding on appropriate flow meters to suit their application, they need to be aware of the difference between FSD linearity and 'of reading' linearity accuracy, as often suppliers do not specify which accuracy is being quoted for." The technical article from Titan illustrates how the linearity reading has a significant impact on the performance of the flowmeter, particularly at the low end of its flow range.

To read the technical article in full please visit <https://www.flowmeters.co.uk/titan-explains-the-factors-that-determine-flow-meter-performance/>

For further information on flow measurement devices to suit specific applications, please contact Titan Enterprises on +44 (0)1935 812790 or 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 ultrasonic flowmeter, 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 ISO9001 and calibrated to an uncertainty of $\pm 0.25\%$.

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Illustrative image (available on request)



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