

Titan Enterprises' Ultrasonic Flow Meter Performs "Great" in Microgravity

Titan Enterprises' flowmeters

have been put through the wringer in various harsh environments, from high speed on an F1 racetrack, to deep mining and offshore oil rigs. Titan's Process Atrato® ultrasonic flow meter is now taking a leap forward and proving to be 'rock solid' in tests within a totally unique environment - microgravity.

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Multiple space agencies

and private space companies around the world, such as Blue Origin, Nasa, Virgin Galactic, and SpaceX, continually explore new technologies and ways to solve specific issues encountered in ultra microgravity situations. NASA, for example, has conducted a number of laboratory experiments on the orbiting International Space Station to explore the effects of microgravity on water and other liquids.

The investigation of fluid flow processes

in low gravity or microgravity environs is hugely important, helping to improve processes essential in the production of plastics and other polymers, to manufacturing medicines and operating machines. In space, liquids behave very differently than on Earth, with processes that are usually masked by the Earth's gravity becoming much more evident. For example, in microgravity, liquids held together by surface tension can achieve sizes much larger than liquids on the ground. Also, when these liquids move, the motions are much slower in microgravity than on the ground.

With no moving parts,

Titan's [Process Atrato® ultrasonic flowmeter](#) offers benefits including high reliability, fast response, high-speed batching and precise liquid dispensing, such as in potable water dispensers. Even with restraints on orientation to avoid trapped gas bubbles, the Atrato® sensor's low-flow capability and through bore design, are showing good results in fluid dispensing tests in microgravity environments for the potential of delivering water to astronauts in space.

Trevor Forster,

Managing Director of Titan Enterprises, said: “Our company philosophy has always been about pushing boundaries – of our ideas, materials and technology – so knowing that our pioneering Atrato® ultrasonic flowmeter is being trialled in microgravity and tested to its limits, is incredibly exciting for us.”

To discuss

an optimised flow measurement device for your specific application or process please contact [Titan Enterprises](#) on +44 (0)1935 812790 or email sales@flowmeters.co.uk. Or visit our [website](#) for further information.

Titan Enterprises Ltd

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 flow meters produced by Titan Enterprises are designed and manufactured to ISO9001 and calibrated to an uncertainty of $\pm 0.25\%$.

[May 2024](#)

[titanpr137-Atrato-in-Microgravity](#)

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