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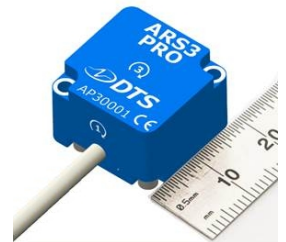
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FOR IMMEDIATE RELEASE

## New DTS Sensor Makes Durability, Life-Cycle and Biomechanics Testing Easier

*The ARS3 PRO Triaxial Angular Rate Sensor measures position and even RPM in virtually any moving part without affecting test dynamics*

Seal Beach, CA (July 10, 2014) – DTS ([Diversified Technical Systems, Inc.](http://www.dtsweb.com)), a leading manufacturer of data recorders and sensors used worldwide for crash, blast and safety testing announces the new ARS3 PRO Triaxial Angular Rate Sensor.



With the new sensor, measuring the durability of a lever or capturing drive shaft speed in a manufacturing machine can be done without the need for a slip-ring. Life-cycle product testing, like a car door, is easy and portable with embedded DAS and a tiny sensor. The ARS3 PRO is especially ideal for testing products like sports helmets or hockey sticks that have tight space constraints, all without affecting the test dynamics.

Unlike an accelerometer that measures linear motion, the ARS3 PRO can be used to quantify virtually any object's position in space, which starts with angular rate measurement. The ARS3 PRO makes it easy to accurately measure high rates of angular velocity, even in excessive shock and vibration environments. Rugged and ultra-small, three angular rate sensors are packaged in a sealed enclosure capable of withstanding impacts up to 10000 g.

The triax gyroscope measures just 19 x 19 x 12.5 mm (0.75 x 0.75 x 0.49") and weighs only 9 g (0.35 oz). For applications requiring three independent sensors to measure pitch, roll and yaw, this design eliminates the need for a mounting block that consumes additional space and adds weight. The result is a self-contained triaxial package that costs 25% less, is 50% smaller and 40% lighter than even three DTS ARS PROs combined in a mounting block.



“The ARS3 PRO is an evolution of DTS innovation in meeting customer needs,” adds Hans Hellsund, Director, Sales & Marketing of DTS. “It has all the inherent reliability and proven performance of the DTS single axis predecessor with shock and vibration tolerances in super high-rate ranges, repackaged into a tiny triax that won’t alter test dynamics.”

The sensors are available with range options of  $\pm 300$ , 1500, 8K, 18K, 50K deg/sec, a variety of bandwidths, DC response, up to 10,000 g shock rating, and shunt check capabilities. The ARS3 PRO is ideal for high energy applications such as vehicle crash safety, in-dummy testing, human impact studies, and aerospace and ballistics measurements. It also meets the latest U.S. government dynamic performance requirements.

For sensor applications requiring six degrees of freedom, DTS offers the [6DX PRO](#) that features three angular rate sensors and three accelerometers in a rugged enclosure that measures 19 x 19 x 14.5 mm and weighs 12 grams.

The new ARS3 PRO Triaxial Angular Rate Sensor Package is available for delivery in 4-6 weeks. For more information visit [www.dtsweb.com](http://www.dtsweb.com), view [data sheet](#) or contact [sales@dtsweb.com](mailto:sales@dtsweb.com).

### **About DTS**

Founded in 1990 by three crash test engineers, DTS manufactures data recorders and sensors used for product safety testing and human injury analysis. DTS measurement solutions and technical expertise are relied on worldwide for critical testing in a variety of industries including automotive, aerospace, military and university research. A DTS helmet smart-sensor that records head forces in an effort to improve soldier safety and reduce traumatic brain injuries was named by the U.S. Army as one of “The Greatest Inventions.” *Inc.* Magazine has twice named DTS as one of the fastest-growing private U.S. companies.

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