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FOR IMMEDIATE RELEASE

Data Collection on Rotating Components

DTS SLICE Data Recorder Eliminates Need for Slip Rings & Telemetry for Rotating Applications

Seal Beach, CA (Feb. 2015) - For anyone challenged with collecting data on rotating components like drive shafts, rotors, reciprocating rods or even track vehicle treads – there is now a solution from California-based DTS that eliminates the need for slip rings and telemetry.

The miniature [SLICE](#) data recorder is so small it can be easily mounted directly on the test article – so no slip rings and no telemetry are required. SLICE fits on virtually any moving or rotating part without altering test dynamics, yet it's rugged enough for extreme test environments. For applications like measuring torque on a drive shaft, SLICE mounts directly on the shaft next to the strain gauges, ensuring the highest data quality, while eliminating issues with noise, data transfer and cumbersome fixtures.

Unlike other data acquisition systems (DAS) that are typically much larger, SLICE includes everything you need to record sensor data autonomously. The built-in microprocessor manages a full featured signal conditioning and storage system that includes independent excitation sources, variable gain amplifiers, adjustable sampling rates from 10 sps to 500k sps, and adjustable anti-alias filters up to 40 kHz. One of SLICE's key features is the huge (16GB) direct-write flash memory that can record high sample rate data continuously for hours, unlike older systems with memory limited to a few seconds or minutes. Plus embedding SLICE in the test article reduces cabling concerns and makes installation easy.

Each 3-channel "slice" or layer is modular and weighs less than 14 grams, so mounting and balancing the system without altering test dynamics is simple. SLICE supports bridge sensors, strain gauges, IEPE sensors, voltage inputs and temperature sensors. Because SLICE stores all data onboard, it eliminates reliability issues from streaming data, especially with higher channel counts or high bandwidth tests. Designed for field testing, SLICE is shock rated up to 5000 g making it ideal for a variety of rotating applications in automotive, aerospace and military.

(more)



A 3-channel DTS SLICE data recorder, including battery, is mounted directly on a CNC shaft along with strain gauges to measure torque and a DTS ARS PRO angular rate sensor to measure angular velocity.



SLICE (3 to 24 channel) data recorders are autonomous and can be mounted directly on drive shafts, rotors and even in track vehicle treads, eliminating the need for slip rings or telemetry for measurements on rotating devices.



SLICE Video (2:33min)
<https://www.youtube.com/watch?v=X5wm6hBVL4w>

For more information on DT SLICE Data Recorders, visit <http://dtsweb.com/products/sliceMN.php> or contact sales@dtsweb.com.

About DTS

Founded in 1990 by three crash test engineers, DTS data recorders and sensors are used worldwide in crash, blast and biomechanics testing by top automakers, aerospace and leading research facilities. The U.S. Army named a DTS helmet sensor as one of “The Greatest Inventions.” *Inc.* Magazine has named DTS three times as one of the fastest-growing private companies in the U.S. Based in Seal Beach, California DTS has technical centers in Michigan, Australia, China, U.K. and Japan.

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