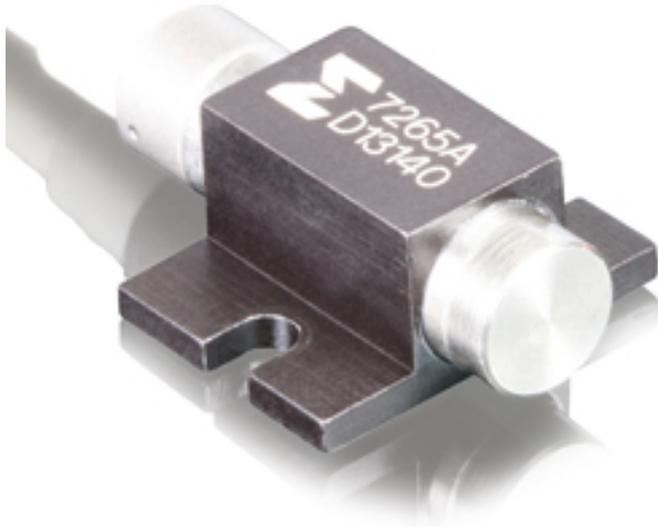


## **Piezoresistive accelerometers support low-frequency shock measurement requirements**



Meggitt Sensing Systems, a Meggitt group division, has introduced the Endevco model 7265A series, a family of low mass piezoresistive shock accelerometers, weighing just six grams, designed to support the low-frequency shock measurement requirements common to aircraft flutter testing, biomedical motion studies, road load data acquisition (RLDA) and other applications in which minimal mass loading and a broad frequency response are required.

The series is offered in two unique versions: model 7265A, with a 5 mV/g sensitivity and a full-scale range of 100 g; and the model 7265A-HS, offered with a high sensitivity of up to 25 mV/g and a 20 g full-scale range. Their high-reliability design incorporates the use of two MEMS gages (gauges) in a full active bridge circuit configuration with two fixed resistors for shunt calibration. In addition, viscous damping is included to extend transducer useful high-frequency range and reduce the effects of spurious high-frequency excitation. This configuration provides a 500 mV full scale low-impedance output with 10 VDC excitation. Integral mechanical stops are also included to further prevent damage when the transducer is subjected to over-range shock. All sensing elements are machined in-house at Meggitt's own ISO9001 certified MEMS facility in Sunnyvale, California, USA, where vertically integrated manufacturing processes allow for full control of product quality, from component through to finished product.

Recommended accessories for the Endevco model 7265A series include the model 136 three-channel or model 4430A signal conditioner, or the model 4990A (Oasis) signal conditioner and power supply. In addition, each Endevco sensor is accompanied by a comprehensive five-year product line warranty. Quantities of the

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7265A series are also available for immediate customer shipment. For more information, visit [www.meggittsensingsystems.com](http://www.meggittsensingsystems.com) [1].

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### **Links:**

[1] <http://www.meggittsensingsystems.com>