

New Six-Degree-of-Freedom Sensor More Accurately Characterizes Motion

TBD, 2020, Depew, New York – MTS Sensors, a division of MTS Systems Corporation (NASDAQ: MTSC), released Endevco Model 7360A, a six-degree-of-freedom (6DOF) sensor that provides analog output for three axes of acceleration and three axes of angular rate in a compact, approximately one-inch cube package. As opposed to inertial measurement units (IMUs) which are not user-friendly in a test and measurement environment, this device offers the convenience and flexibility of an analog output sensor.

In typical dynamic measurements, acceleration and angular rate data are essential parameters needed to fully characterize the complex behavior of a moving object. Until recently, engineers could only gather information using linear accelerometers because the massive array of sensors required to collect rotational data was impractical due to the expense and space required. With this new 6DOF sensor, automotive and aircraft development engineers are now able to measure linear and rotational dynamics that previously required multiple sensors and additional space. Rather than having to make assumptions about these dynamic interactions, the engineers can receive reliable, empirical data to support analytical results. The multiaxial Model 7360A sensor offers low acceleration ranges and low angular rate ranges suitable for accurately characterizing motion.

The Model 7360A sensor provides differential output using two 12-wire cables to simplify connection to data acquisition systems. Further, it is calibrated in its final assembly configuration to help ensure accurate performance.

Key features include:

- Five acceleration ranges from 2g to 500g
- Six angular rate ranges from 100 to 18,000 degrees per second
- Compact package, less than 1.2 inch cubed
- Rugged to 5,000g shock
- Wide excitation voltage (specify M1 for 5V operation)



Model 7360A

The Model 7360A sensor is shipped with calibration certificates and includes mounting screws and washers for installation. Calibration is A2LA certified and is both RoHS compliant and CE approved.

About Endevco

Endevco is an assumed name of PCB Piezotronics of North Carolina, Inc. and is a designer and manufacturer of sensors, instrumentation, and cables for vibration, shock and pressure measurements, known for innovation of sensor technology for the automotive, aerospace and military markets. Visit www.endevco.com for more information. PCB Piezotronics of North Carolina, Inc. (doing business as Endevco) is a wholly owned subsidiary of PCB Piezotronics, Inc. PCB Piezotronics, Inc. is a designer and manufacturer of microphones, vibration, pressure, force, torque, load, and strain sensors, as well as the pioneer of ICP® technology used by design engineers and predictive maintenance professionals worldwide for test, measurement, monitoring, and control requirements in automotive, aerospace, industrial, R&D, military, educational, commercial, OEM applications, and more. With a worldwide customer support team, 24-hour SensorLineSM, and a global distribution network, PCB® is committed to Total Customer Satisfaction. Visit www.pcb.com for more information. PCB Piezotronics, Inc. is a wholly owned subsidiary of MTS Systems Corporation. Additional information on MTS can be found at www.mts.com.

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