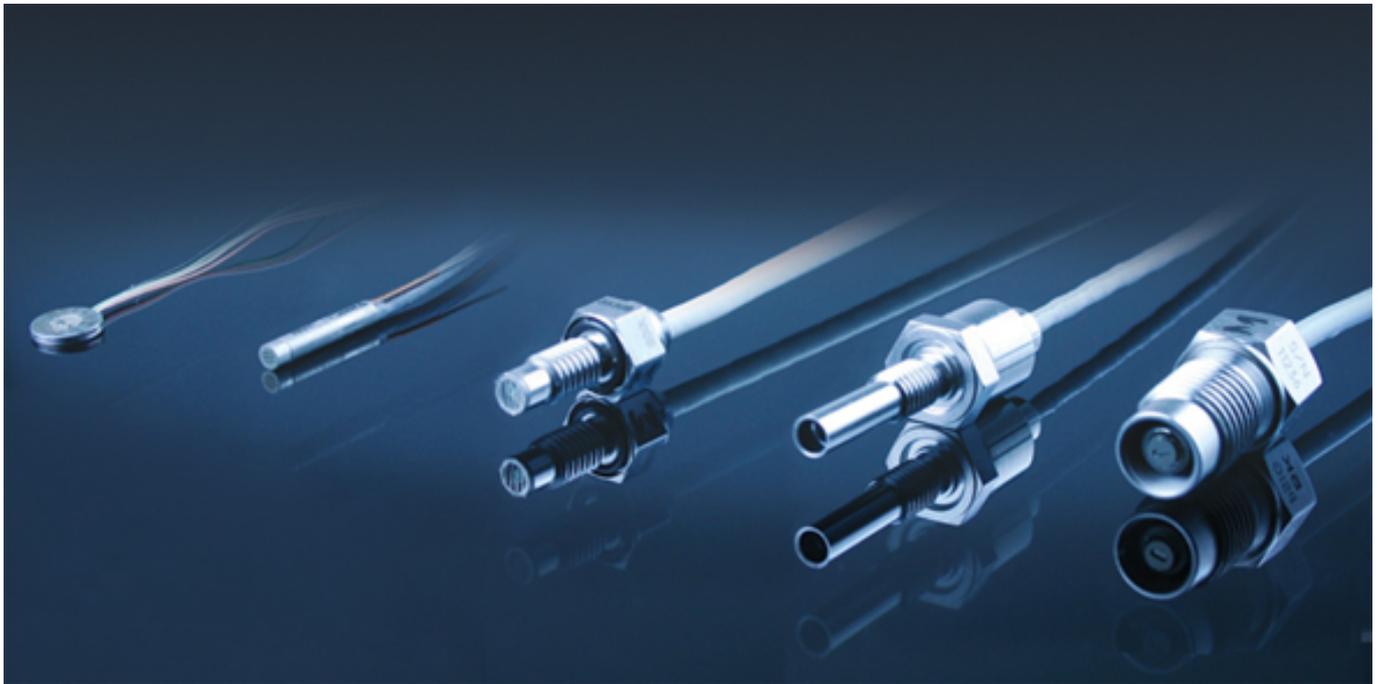


## **Meggitt Sensing Systems Expands Endevco Piezoresistive Pressure Transducer Offerings**

Meggitt Sensing Systems has announced the expansion of its Guaranteed InStock program to now include 19 Endevco high-sensitivity piezoresistive pressure transducer models, with more than 400 units available for immediate shipment.

All of Meggitt's Endevco piezoresistive pressure transducers feature a four-arm strain gage bridge design, implanted into a MEMS diaphragm, for wideband frequency response and twice the sensitivity of traditional flat diaphragms for improved resolution. They are also shipped in special electrostatic discharge (ESD) packaging for added protection during shipment and handling.



Available series models include:

Endevco model 8510C series rugged, miniature, high-sensitivity, high resonance gage piezoresistive pressure transducers. Offered in ranges of 15, 50 and 100 psig with 225 mV full scale output, the series offers high output within a very small (3.86 mm diameter face) and lightweight (2.3 grams) package with excellent non-linearity of <1% to 3x over-range with 4X minimum burst pressure and 20,000 g shock resistance. Integral hybrid temperature compensation provides stable performance over a range of -18°C to +93°C (0°F to +200°F). Models also come standard with a vent tube that can be connected to any standard reference manifold for differential pressure measurements, or referenced to the ambient atmosphere. Typical applications include process control, blast testing, automotive airbag testing, rocket motor analysis, jet engine inlet pressure measurements, transmission testing and

hydraulics measurements;

Endevco model 8515C series of miniature, high-sensitivity piezoresistive pressure transducers, designed for surface air flow and other aerodynamic measurements requiring high output in a small, lightweight package. Their ultra-low profile design has an overall thickness of 0.030 inch (0.76 mm) and diameter of 0.250 inch (6.3 mm). Units are available in ranges of 15 and 50 psia with 200 mV full scale output, and frequency responses of 180 kHz and 320 kHz, respectively. The transducers offer stable performance over an operating temperature range of -54 to +121°C (-65 to +250°F), with a combined non-linearity, non-repeatability and pressure hysteresis error of less than 0.50% FSO. In addition, the model 8515C series is designed to survive 10,000 g shock and 10,000 g acceleration with minimum 5X burst pressure, making it the best performing pressure transducer of its kind in the industry. The series is also supplied with an integral cable, and is typically surface mounted onto curved surfaces, for minimal effect on laminar air or hot gas flow. For airflow smoothing requirements within flight test applications, an optional rubber fairing is available. Modified versions are also available for wider temperature compensation. Because of its uniquely high overload capability, high frequency response, very low base strain sensitivity and excellent temperature performance, the model 8515C series is ideally suited for small-scale wind tunnel testing models, helicopter or turbine blade surface pressure measurements, as well as aerodynamic surface measurements required during flight test; and the

Endevco 8530BM37 series of miniature, high-sensitivity, high resonance absolute piezoresistive pressure transducers, rugged to 20,000 g shock, offering excellent linearity and thermal transient stability, even at 3x over-range, with certain models offering high resonance frequencies of up to 1000 kHz with minimum 4X burst pressure and best-in-class pressure hysteresis errors as low as <0.50% FSO, supporting demanding vehicle hydraulics and pneumatics; airbag performance; and transmission testing.

For more information about these and other products available from Meggitt Sensing Systems, visit [www.meggittsensing.com](http://www.meggittsensing.com) [1]

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