



## PRESS RELEASE

FOR IMMEDIATE RELEASE

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### **DUNAN SENSING ANNOUNCES ITS MDC SERIES OF HARSH MEDIA COMPATIBLE PRESSURE TRANSDUCERS IDEALLY SUITED FOR SPACE-LIMITED APPLICATIONS**

*MEMS-BASED PRODUCT PROVIDES OEMs WITH THE BEST PRICE/PERFORMANCE IN THE INDUSTRY*

June 26, 2018...San Jose, California ...DunAn Sensing, headquartered in San Jose, CA and a leader in industrial, consumer and medical pressure sensing products, has announced here at the annual Sensors Expo, the availability of its MDC (MEMS DURAsense® Core) Series of harsh media compatible pressure transducers. The MDC series uses DunAn Sensing's proprietary DURAsense® unique packaging and microelectromechanical systems (MEMS) pressure sensor integration strategy to provide highly accurate pressure outputs in space-limited applications at a low cost including pumps, hydraulics, pneumatics, valves and hand-held devices.

The MDC Series is a ceramic packaged button module...a.k.a. "Core". The Core is comprised of a ceramic substrate on which the MEMS piezo resistive pressure sensor is mounted. The Core utilizes a media compatible rear-entry packaging strategy for media contact with the Silicon sensor thus eliminating the contact of bond wires and electrical signals to the media which also enhances reliability and the ability to operate in conductive media. DunAn Sensing's approach significantly enables sensor chip performance at reduced cost.

This packaging approach provides improved performance and lower price over those pressure sensors which use an oil-filled cavity and a metallic diaphragm. The pressure sensor is eutectic bonded to the ceramic substrate which gives the MDC series enhanced ruggedness and reliability and avoids potential

delamination. Signal conditioning for the pressure measurement and performance compensation is provided by an Application Specific Integrated Circuit (ASIC) mounted on a PCB.

The DunAn Sensing MDC Series is available in pressure ranges from 0-15 to 0-750 psi in absolute, gage and sealed gage providing flexibility to address a wide number of applications. Device accuracy at 25-degree C (combined linearity, hysteresis and repeatability) is +/- 0.5% of span. Accuracy over the -40-degree C to +125-degree C is +/- 2.0 % of span. The guaranteed proof pressure of 3X rated pressure (maximum of 1500 psi) and burst pressure of 5X rated pressure (maximum of 2500 psi) insures trouble-free operation in the most demanding applications. These devices will provide OEMs with superior reliability, accuracy and affordability. Their extended temperature range of -40-degree C to +125-degree C, rugged hostile media package and lowest price in the industry are ideal for applications including pumps, hydraulics, pneumatics, valves and hand-held measurement devices.

The finished Core device is 18 mm. in diameter by 5.0 mm. thick making it ideal for space-limited applications where a high performance/low cost solution is required. The output signal level is Ratio Metric 0.5 to 4.5V with 5V input.

Mr. Gary Winzeler, DunAn Sensing V.P. of Sales and Marketing said..." We listened to the voice of the customer to create the MDC Series. A broad range of customers addressing a broad spectrum of applications required a small and low-cost pressure sensor that could be easily integrated into their OEM designs and could withstand very harsh media environments. We were able to accomplish this without sacrificing performance and long-term reliability with our MDC Series and thus assisting them in creating a cost and performance competitive product in the market".

#### **PRICE AND AVAILABILITY**

The DunAn Sensing MDC Series unit price is \$48.18 in quantities from 1-499. Evaluation units are available from stock.

#### **ABOUT DUNAN SENSING**

DunAn Sensing is a Silicon Valley, California company founded in 2014. Our leadership team and many members of our engineering staff have a long track record in the MEMS pressure sensor industry. We offer high-performance, harsh media compatible OEM pressure sensors, transducers and transmitters.

DunAn Sensing supplies pressure sensing sensors and transducers to the HVAC/Refrigeration, Industrial, Medical and Automotive Industries. DunAn Sensing is located in San Jose, California USA and in Hangzhou, China where it operates a high-volume manufacturing facility. Please visit us at [www.dunansensing.com](http://www.dunansensing.com).