Converter Offered for Mechanical System Health Monitoring

Meggitt Sensing Systems, a Meggitt group division, has announced the re-launch of Endevco model 2771C-XX, an ultra-low noise remote charge converter (RCC) designed to facilitate even more precise measurements from piezoelectric transducers within mechanical system health monitoring and environmental testing applications. This highly popular model is now being offered at a lower price and as a lower noise drop-in replacement for legacy Endevco 2771B models or other industry equivalents.

Offered with three individually fixed gains of 0.1, 1.0, and 10 mV/pC, the Endevco model 2771C-XX offers a rugged two-wire (IEPE), single ended design operating from constant current power (4-20 mA), with a broadband noise range down to 5 µ Vrms and frequency response of 0.4 to 50 kHz. Both RCC signal output and input current are carried along the same wire. Housed in a rugged, small package, units are designed to withstand shock loads of up to 100 g peak and are radiation tested to 1.0 MRads.
Because of its low impedance voltage, signal output from the Endevco model 2771C-XX is less susceptible to noise pick-up. Also, shunt capacitance of the cable connecting model 2771C-XX to the main signal conditioner does not significantly affect system noise or sensitivity. The Endevco model 2771C-XX can also support TEDS (per IEEE P1451.4) for smart sensor and larger channel count applications, and includes an available M1 Version with male BNC to facilitate easy panel mounting. The RCC is designed for direct compatibility with both Endevco and other industry piezoelectric charge output accelerometers.

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