# MEMS Capacitive Accelerometer Modules Support Low-to-Medium Frequency Triaxial Measurement Reqs

Silicon Designs introduced its model 2445 series of single-ended low-noise analog MEMS capacitive accelerometer modules, designed to support a variety of low-to-medium frequency triaxial measurement requirements. The rugged design features three orthogonally mounted low-noise MEMS capacitive sensing elements, packaged in a nitrogen-damped, epoxy sealed lightweight aluminum housing, finished with a ±5-V single ended output. The outputs are referenced to external ground. Units are available with individual standard measurement ranges from ±2 g to ±400 g, with all designed for reliable operation over a temperature range of -55°C to +125°C. Non-standard units with enhanced measurement and temperature ranges, as well as alternative housings and outputs, are available upon request. The model 2445 features a six-wire connection with an instrumentation amplifier on each axis, for higher drive capability and low-impedance output. Both on-board voltage regulation and an internal voltage reference eliminate the need for precision power supplies and help ensure low power consumption. In addition, the model 2445 is relatively insensitive to temperature changes and gradients. Units respond to both DC and AC acceleration. All model 2445 modules are shipped from the factory fully calibrated, each serialized for traceability.

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