Triaxial Accelerometers Are Tailored for Low-to-Medium Frequency Applications

Dytran Instruments has introduced the 7503A Series, a family of high precision triaxial MEMS DC accelerometers designed for use in both commercial and military applications. The accelerometers combine a micro-machined MEMS capacitive sensing element housed in a hermetically sealed titanium case to deliver reliable performance in harsh conditions. Tailored for zero-to-medium frequency applications, the Dytran 7503A Series combines an integrated VC accelerometer chip with high drive, low impedance buffer for low-level acceleration measurements. Offered with a choice of seven different sensitivities and available in measurement ranges between 2 g and 200 g, these accelerometers offer a low-end frequency response down to DC (0 Hz), with an upper frequency range between 400 Hz and 2,500 Hz with differential output. The units are rugged to 5,000g shock and operate from +9 to +32 VDC power.

The module contains three separate variable capacitance accelerometers configured orthogonally for X, Y, Z outputs and low noise electronics, with a 5/16-32 radial connector and easy mounting via two #4 or M3 screws. Recommended accessories for the 7503A series include the model 6956A eight conductor cable assembly, 9-pin plug to (3) D-SUB connectors and model 4010 signal conditioner. The Dytran model 4010 is a microprocessor controlled, 3-channel DC signal conditioner amplifier designed for use with bridge-type or differential output accelerometers and pressure sensors.

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