

Since 1953 Columbia Research Laboratories, Inc. has been a leading manufacturer of sensors for use in Aerospace, Military and Industrial markets, including but not limited to force balance inertial-grade accelerometers & inclinometers, piezoelectric accelerometers, vibration/temperature transmitters, and dynamic pressure sensors, strain gage aircraft mainframe fatigue sensors, precision linear variable differential transducers, assorted signal conditioning instrumentation and fiber optic sensors. CRL is located in Woodlyn Pennsylvania, just minutes from the Philadelphia International Airport. Our 20,000 square feet in-house manufacturing facility provides for 98% of Columbia's production processes, reducing our dependency on outside contractors and thereby enabling us to provide our customers with the highest quality products, timely delivery and reasonable pricing.

## PRODUCTS OFFERED BY COLUMBIA RESEARCH LABS.



The Columbia product line of piezoelectric accelerometers is widely known for reliable performance, quality and ruggedness and is always expanding to meet the unique challenging and ever changing requirements of our customers. The selection of specifications, sizes and configurations is large and diverse and suitable for use on many applications requiring features such as high performance, high accuracy, high temperature, seismic event, 4-10mA output, airborne, miniature size and general purpose use.

Columbia's product line of piezoelectric pressure sensors is extensive, with a variety of features for many pressure applications including very high and low pressure, wide frequency response, vibration compensated, general purpose, high temperature, electrical isolated, hermetically sealed, low output impedance, corrosion-resistant and fast pressure variations, surges and dynamic blasts. With choices of sensitivity, electrical interface, and pipe or straight threads for mounting.



Columbia's foil strain sensors monitor the fatigue loading experienced by tactical aircraft under various conditions of speed, weight and missions configurations. These sensors are self-temperature compensating, environmental resistant, have a high output, two active arms and are easily installed. Developed for the demanding requirement associated with tactical military aircraft, they are equally useful performing many of the more common strain measurement encountered in the material testing laboratory.

Columbia offers a wide selection of force balance servo accelerometers and inclinometers specifically designed to give the user a diversified choice of sizes, configuration and performance levels for industrial, OEM and military requirements. Many of Columbia's transducers have been in-flight qualified in accordance with MIL standards and are currently being used on a variety of technical demanding in-flight weapons systems. Along with high reliability product performance these sensors also feature options such as high sensitivity, ultra rugged, seismic event, high temperature, miniature, general purpose, airborne and much more.



Columbia's series of linear variable differential transformers are designed for applications demanding the highest level of performance and reliability under the rugged conditions and harsh environments, characteristic of construction equipment, military and industrial environments and where maximum life under adverse conditions is required. This product is offered in a variety of displacement ranges and core sizes, high stroke/length ratio, frequency ranges, and units with sensitivity and extended temperature range for high temperature environments.

Columbia also offers a variety of signal conditions instruments, including, constant current power supplies, in-line charge converters, constant current power supply/signal conditioner, strain gage amplifier, and charge amplifiers (standard, miniature and airborne). Handheld vibration meters are another line of instruments offered by Columbia Research Labs.



**Visit our Web Site [www.crlsensors.com](http://www.crlsensors.com)**

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