

RELIABLE, HIGH PERFORMANCE PRODUCTS — EXCEPTIONAL SERVICE

FEATURING: Precision Inclinometers

Jewell force-balanced (servo) Precision Inclinometers are extremely sensitive, rugged transducers designed to provide horizontal angle or vertical deviation measurements with virtually infinite resolution. Every Jewell precision inclinometer responds to changes of slope as small as 0.1 second of arc, with a high-level DC output signal proportional to the sine of the angle of tilt from as little as $\pm 1^\circ$ full range to $\pm 90^\circ$ full range.

Custom Application-Specific Solutions

Jewell Instruments provides both standard and custom solutions for a diverse group of industries, such as aerospace, medical, industrial, telecommunications, and rail markets. We manufacture our components completely in-house and work directly with our clients, maintaining control over the entire development process. Our legacy of experience and success, and the expertise of our engineering team, mean customers benefit from extensive resources at their disposal.

Connecting Experience, Quality & Expertise

For over 60 years, Jewell Instruments has provided commercial and industrial sensors and controls, meters and avionics, and industrial test equipment solutions to a range of global markets. Our ISO 9001:2008 certification ensures that our customers receive products and systems with the dependability and reliability that their applications demand. Jewell Instruments' experienced engineering team works with customers to produce high quality, reliable products that meet or exceed their requirements.

Exceptional Customer Service

We specialize in reliability, value and responsiveness. Cooperation and joint planning between our engineering groups and our clients drive our customer care experience. We work as an extension of our customers' engineering and manufacturing teams to solve problems, improve applications, shorten lead-times and bring more value to their products and services. Superb customer support is the cornerstone of our many successful, long-term customer relationships.

Jewell Facilities

Jewell offers two, fully modernized manufacturing facilities, one in Manchester, New Hampshire and one in Barbados, West Indies.



Manchester Facility



Barbados Facility

Other Product Groups Available:



Rail Transportation Selector Guide



Force-Balanced Precision Accelerometer Selector Guide



Electrolytic Tilt Sensors and Accessories Selector Guide



MEMS Inclinometer Selector Guide



MEMS Accelerometer Selector Guide

Distributed By:



Making Sense Out of Motion...



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ENGINEERED SENSOR SOLUTIONS

Rail Transportation

Tilt sensing is an affordable, high accuracy method for rail control, maintenance and testing. Using inclinometers, engineers can monitor and test the levelness of railroad track or detect any tilt and sway acted upon a railcar in transit. Precision inclinometers are pivotal within applications such as railroad maintenance of way, rail automated train controls and rail test and measurement. Many of our inclinometers are CENELEC/AREMA certified to verify that the demands of your application are met.



Industrial & OEM

Inclinometers play a key role for industrial automation and OEM projects. Force-balanced inclinometers have the precision and durability for extreme conditions such as basic metals processing and hot mix paving. They are also a necessary implementation for large machinery such as robotics, construction and agricultural equipment in order to automate controls and provide much needed information to the operator.

Geotechnical Monitoring

Civil engineers need to know everything about their structural projects. It is imperative to be aware of the sag and sway of a structure in order to know how to build it, maintain it and take it down. Force-balanced sensors have the precision needed to detect minute structural movements with a resolution to μrad . They can also hold up to the demanding elements with operating temperature ranges as great as -55 to $+85^\circ\text{C}$. Fluid damping is also available to reduce bandwidth and eliminate surrounding noise and vibration.



Customer Sensor Solutions

Jewell Instruments designs and manufactures a large selection of custom sensor solutions for customers worldwide. From the enclosure to the electronics, our skilled engineering and sales staff can customize the ideal tilt sensor for your application. Jewell Instruments has provided custom sensor setups for automotive research, satellite testing, aerospace, military, rail applications and more. No matter the requirements, Jewell Instruments can design a sensor package to meet all of your needs. Call us and see how our precision sensor solutions can help you make sense out of motion!

Force-Balanced Precision Inclinometer Selector Guide



