

RIEKER INC CAPABILITIES BROCHURE





Acceleration and Inclination Measuring Instruments for Air, Land, and Sea



since 1917 USA

Imagine if your every need was not only met but anticipated.



For nearly a century, Rieker has provided solutions for all your tilt and acceleration sensing needs. We design and manufacture accurate, rugged accelerometers, inclinometers, slip indicators, and tilt warning switches - both electronic and mechanical instruments to meet your demanding requirements. Our sensors are used across industries where accuracy, durability, and ruggedness are required including: Aerospace & Defence, Agriculture, Aviation, Automotive, Civil Engineering, Construction, Government, Industrial Automation, Marine, Military, Mining, Offshore, and Transportation.

If you have an engineering challenge, we have your sensing solution.



Our Philosophy

Since its founding, two central principles have defined Rieker's core foundation:

Customer Driven and Personnel Quality

Our customers receive responsive, flexible, and efficient support with quality products and services delivered on time and at a fair price.

Our top rated customer care service and support is provided by a competent workforce highly trained and experienced to provide the products and services we offer.

Our concept to problem solving - a small number of highly skilled and motivated personnel are utilized - maximizing innovation, responsibility, and creativity in problem solving. The result is a high quality cost-effective approach to meeting the needs of our customers.

The results speak for themselves: *Industry leading product quality, customer loyalty, and consistent growth.*

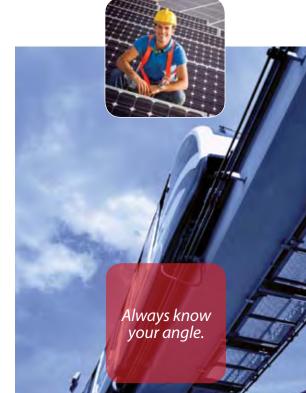








Edward Donigo







Drives us. section

Industries We Impact:

Aerospace/Defense

Agriculture

Automotive

Aviation

Civil Engineering

Construction

Drilling/Boring

Fire & Rescue

Government

Heavy Industry

Industrial Automation

Lift & Access

Marine & Offshore

Military

Mining Railroad

RV & Coach

Sound Reinforcement

Sub Sea

Trailer & Chassis

Transportation Utility & Bucket

CAGE CODE: 50926 NAICS NUMBER: 3345111 SIC CODE: 3829

HARMONIZED CODE

(Schedule B, Tariff Code, HS Code) Electroinc Products: 903180.8085 Mechanical Products: 901580.8080

Our Customers

Experience, Longevity, Quality.

What Rieker shares with our customers over our nearly 100 years of business. The companies shown are a small representation of customers we provide tilt and acceleration sensing solutions.









Inspire us.















About Us

Rieker Inc, a worldwide leader in the manufacturing of quality electronic and mechanical inclinometers, is committed to customer service, product availability, technical support, and performance. Rieker's technological excellence, supported by continuing substantial investments in research and development, has been the foundation of growth, and helps to ensure quality products for our customers.

- > Decades of Manufacturing Experience
- > Stock & Custom Made-to-Order Instruments
- > International Sales and Distribution
- > Multi-cultural and Bi-lingual Staff

solutions to our customers has helped us continue to grow - from early projects with government agencies to current ongoing large-scale sales and support with Original Equipment Manufacturers.

This same reputation for quality product

Our company growth is supported by the technical

Our Reputation



development and performance has resulted in awards of multiple government-wide contracts (aerospace, defense, and transportation).

capability of our staff as well as defined processes that promote quality and consistency.

We have state-of-the-art equipment for testing, our engineers and technicians stay up to date on the latest developments in precision measurement and testing, often pioneering advanced hardware and software solutions.













Company Milestones and Worthy Accomplishments



Founded in 1917, Rieker Instrument Company Inc began manufacturing high quality inclinometers using hand blown glass tubing to exacting specifications for the medical and aviation fields



The US Government contracted Rieker to produce pitch and roll indicators for the new aircraft market. In 1927 Charles Lindbergh chose the Rieker P-1057 Inclinometer for climb and descent angle of his "The Spirit of St. Louis"

One of Rieker's original medical instruments was the Dare Hemoglobinometer. a handheld instrument used to detect anemia in patients. Precision hand blown glass makes its mark in manufacturing. The modern version was used around the world until the mid-1980's.



racing sailboats, which guickly became the standard for heel angle. The 2056 - with it's dual scales, accuracy, durability and low cost - remains one of the most popular precision instruments of sailboat owners around the world - including the America's Cup

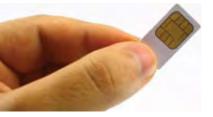


During the late 60's/early 70's Rieker found an emerging market in the Construction Industry, which needed a simple way to warn heavy equipment operators of Tip Over Danger due to steep slopes. Rieker introduced bright color zones for an easier quick reference of out of level conditions

Early in the 1980's Rieker redeveloped the Boom Angle Indicator that would not freeze, rust, or hang up like the typical pendulum style indicator of its time. By using new sonic weld technology the device ensured smooth operation no matter the environment. Rieker's unique design offers superior Allweather performance, ruggedness, and ease of field installation. A backlit version made the 4120 a 24/7 tilt indicating device the only one of its kind

Era of electronic automation - Rieker put it's efforts into developina less expensive electronics to indicate tilt, inclination, and acceleration. The SlopeAlert Tilt Warning was invented to address the issue of roll over for mobile equipment and false triggering associated with the options at that time. It is in use today on mobile construction equipment and military vehicles for advanced safety.

Today, Rieker is constantly improving and developing new products that are user friendly, easier to install, durable, cost effective and provide multi-functionality. We understand that our customers need tilt indicating devices that simply work, and are flexible enough to meet their requirements.



1917 1920-30's 1940-50's 1960's 1970's 1980's 1990's - Early 2000's 2010 & Beyond



Backlit Inclinometers provide Night Visibility - made for:

Aerial Lift Equipment Bucket and Utility Trucks Cranes Fire Trucks Fork Lift Trucks



Mechanical Inclinometers, Slip **Indicators, and Circular Bubble Levels**

Circular Bubble "Bulls-Eye" Level

Quality.

- » Precision Ground Glass for Clear Viewing
- » Machined Aluminum Housing, Anodized Black
- » ALL-weather performance: Salt Fog per ASTM B117
- » Operating Temperature: -40°C to +80°C $(-40^{\circ}\text{F to } + 176^{\circ}\text{F})$
- "Bulls-Eye" Permanently Fused Ceramic Markings
- » Variety of sizes to fit any application
- » Metallic silver finish for best visibility of bubble



Electronic Sensors: Accelerometers and Inclinometers

Number of Axes:

- » Single (1)
- » Dual (2)
- » Tri-Axis (3)

Angle Ranges:

- * ±1° to 360° Sensor Technology:
- » Liquid Capacitive
- » MEMS
- » Spring Mass

Output Types:

Temperature Compensated Performance!

- » Analog Current 4-20mA (2-wire and 4-wire)
- » Analog Voltage 0-5VDC/0-10VDC
- » Digital LCD Display
- » Digital Pulse Width Modulated (PWM)
- » Digital RS232 (Serial)
- » Digital RS485

Output Resolution Range:

» 0.1° through 0.001°

Environmental Protection:

- » IP65 to IP68
- » Nema4/4X

Housing Types:

- » Die-Cast Aluminum
- » Die-Cast Zinc
- » Machined Anodized Aluminum
- » PBC Plastic
- » Noryl Plastic
- » Stainless Steel

Power Supply:

- » 8-30VDC non-regulated
- » 5VDC regulated
- » 110VAC Wall Adaptor
- » 240VAC Wall Adaptor
- » Battery

Operating Temperature Range:

- \sim -40 to +85°C (-40 to +185°F)
- -20 to +70°C LCD Display Packages

Mounting Positions:

EMC Protection

- » Vertical like a clock on a wall
- » Horizontal flat on a table top **Vibration and Shock Resistance:**

500 G up to 10,000 G's

Our electronic accelerometers and inclinometers have no moving parts, nothing to break or shown to drift over time - making these sensors highly reliable for rugged applications with long life.

electronic

Rieker Manufactures to:

Quality System Conforms to MIL-I-45208A and MIL-STD-45662



Rieker Certifications:

CE Certification

CSA Certification - Intrinsic Safety









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Rieker International Authorized Representatives

Beijing Office:

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Contact: Mr. Ran Jin ranjin@riekerinc.com
Tel: +86 (10) 87083686
Fax: +86 (10) 82563661
Mobile: +86-13911816391
Room 12-908
No. 5 Changchunqiao Road
Haidian, Beijing 100089
China

New Delhi Office:

Contact: Mr. Rajeev Jawa rj@smarttechnologies.in
Tel: +91 (11) 26292405 , 26371669
Fax: +91 (11) 26292409 , 26371668
Mobile: +91-9810003270 , -9818303270
C-44 Okhla Industrial Area
Phase-1
New Delhi 110020
India

