



Since
1917

Rieker Incorporated



Complete Line of **Inclinometers and Tilt Indicating Instruments**

Since 1917, Rieker Inc. has been providing solutions for all your tilt sensing needs, designing and manufacturing accurate, rugged inclinometers, boom angle indicators, custom slip indicators, and tilt warning switches. Offering multiple options, we have single and dual axis sensors and sensor packages - electronic and mechanical - to meet your requirements. The products in this brochure meet a variety of applications. If you have an application that requires custom specifications, please contact us today with your requirements.

Our inclinometers are used across a wide variety of industries including: Aerospace & Defense, Agriculture, Aviation, Automotive, Civil Engineering, Construction, Government, Industrial Automation, Marine, Military, Mining, Offshore, Transportation.

Our inclinometers are used for a wide variety of applications including: Antenna Positioning, Auto-Leveling Systems, Ball Banking, Boom Angle Indication, Grade Control, Line-Array Alignment, Pitch & Roll, Platform Leveling, Rollover Warning.



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Inclinometer and Tilt Sensor Solutions

Introductory Catalog

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<p>H4 Inclinometers</p> 	<p>0-5VDC or Digital Serial RS232 Output</p> <ul style="list-style-type: none"> • Single Axis • Rugged Die-cast Zinc Metal Housing, fully potted IP66, Mounts vertically • Operating Temperature -40/+85°C (-40/+185°F) • Analog Voltage 0-5VDC • Digital Serial RS232 • 2 levels of Temperature Compensation • Angle Range: ±30°, ±45°, ±70° • Common Footprint • EMC Protected • Vibration and Shock Resistant • OEM Pricing
<p>H4PD1-22</p> 	<p>Dual Axis, MEMS, Digital Pulse Width Modulated Output</p> <ul style="list-style-type: none"> • Low-Cost DUAL Axis • Rugged Die-cast Zinc Metal Housing, fully potted IP66, mounts horizontally • Operating Temperature -40/+85°C (-40/+185°F) • Temperature Compensated Digital PWM Output • Angle Range: ±10° / 22° max • Common Footprint • EMC Protected • Vibration and Shock Resistant • OEM Ready - OEM Pricing - volume quantities in stock!
<p>NGU, SB1U, SBG2U</p> 	<p>0-5VDC Analog Voltage Output</p> <ul style="list-style-type: none"> • Single Axis Sensors, Single and Dual Axis Packages • Rugged Die-cast Aluminum Sea Water Resistant Coated Finish • -40°C to +85°C Operating Temperature • IP65 to IP67 • 0-5VDC • 8-30VDC non-regulated input Supply • ±10°, ±30°, ±80° (custom scaled ranges available) • 0.01° to 0.001° output resolution • Temperature Compensation • Shock Resistant 10,000 G's • CE Mark
<p>NGi, SB1i, SB2i</p>  	<p>4-20mA Analog Current Output</p> <ul style="list-style-type: none"> • Single Axis Sensors, Single and Dual Axis Packages • Rugged Die-cast Aluminum Sea Water Resistant Coated Finish • -40°C to +85°C Operating Temperature • IP65 to IP67 • 4-20mA (2-wire current loop) • 8-30VDC non-regulated input Supply • ±10°, ±30°, ±80° (custom scaled ranges available) • 0.01° to 0.001° output resolution • Temperature Compensation • Shock Resistant 10,000 G's • CE Mark • CSA Certification for Intrinsic Safety



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<p>XB Series - Sub Sea</p> 	<p>Underwater Inclinometer for Extreme Environment</p> <p>Protection against extreme environments, aggressive media, and seawater.</p> <ul style="list-style-type: none"> • Stainless Steel housing • single or dual axis measurement • Measuring ranges up to $\pm 80^\circ$ • 4-20mA (2-wire current loop) • pressure resistant to 100 meters below sea level • made for sub-sea or extreme operating environments
<p>RDI Digital Inclinometer</p> 	<p>LCD display, angle monitoring & early tilt warning system</p> <ul style="list-style-type: none"> • Rugged Die-cast Aluminum Painted Black Finish • Single or Dual Axis Stand alone or Remote Sensor Packages • ALL-weather Remote Sensor Box • Analog 0-5V, RS232, up to 4 switch outputs (12 or 24VDC relays avail) • LCD Display, 0.1° or 0.01° Resolution • Up to $\pm 70^\circ$ Measuring Range, custom ranges available • Temperature Compensation for increased accuracy over temperature • -40°C to $+85^\circ\text{C}$ Operating Temperature (LCD op temp $-20/+70^\circ\text{C}$) • Semi-custom-multiple options • Adjustable Audible (buzzer) & Visual (LED) warnings
	<p>RDS7-BB-09 Ball Bank Inclinometer - for determining safe curve speed, used by Dept of Transportation, Government Agencies and Traffic Engineers worldwide.</p> <ul style="list-style-type: none"> • audible alert • digital LCD display showing angle in Degrees or Percent Grade • RS232 output (continuous readouts right to your laptop) • adjustable alert trip angle to meet varying regulations
	<p>RDSR3-BA-09 Digital Boom Angle Indicator</p> <ul style="list-style-type: none"> • LCD Display Box, 0.1° Resolution • Adjustable Audible & Visual warnings • Single Axis measurement $-10/+90^\circ$ • Rugged Remote Sensor Box, ALL-weather
	<p>RAD2-70-E2 Remote Angle Display - (RAD/RAS) for Sound Engineers</p> <ul style="list-style-type: none"> • Designed for positioning line arrays and PA systems • 9V battery powered hand held LCD display box matched with choice of remotely mounted inclinometer sensors • Dual Line LCD Display Box, 0.1° Resolution • Single Axis measurement $\pm 70^\circ$ • Reads 2 remote sensor boxes simultaneously!
<p>SlopeAlert™ Tilt Switch</p> 	<p>Low Cost Tilt Warning Switch</p> <p>Low-Cost Tilt Warning System for Off-Road Vehicles and Equipment in Motion!</p> <ul style="list-style-type: none"> • Dampened to eliminate false triggers • Single or Dual axis • Shock proof to 500g • Weatherproof Rugged Noryl Plastic, fully potted • Open Collector Switch Outputs (12 or 24VDC Relays avail) • Audible (buzzer) & Visual (LED) warning options



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Mechanical Types	Precision "ball in tube" style Inclinometers and Slip Indicators		
 <p>Slip Indicators (Stock & Custom)</p>	<p>Rieker's mechanical style inclinometers (also known as clinometer, slope or angle indicator) are typically used to get a quick visual reference for leveling, balancing and preventing tip-over of vehicles, cranes, equipment and boats.</p>		
 <p>1017SPL3-4/8/10</p>	<p>Rieker manufacturers mechanical inclinometers using precise glass tube and ball construction with engraved or silk screened markings and customer specified color warning zones. All our tubes are filled with a special damping fluid that controls the movement of the ball. The fluid combined with large, clear number and degree markings make it easy to get quick, accurate readings under a wide variety of severe environmental conditions.</p>		
 <p>1023SPL3-10/15/20</p>	<p>Features:</p> <ul style="list-style-type: none"> • Precision Glass Tube • Custom Size Tubes • Custom Color Warning Zones: One, Two, or Three Color Zones Available (Green, Yellow, Red) • Backlit Models Available • Rugged Die-cast Aluminum or Polycarbonite Housings • Angle Ranges: $\pm 5^\circ$, $\pm 10^\circ$, $\pm 20^\circ$, $\pm 45^\circ$, $\pm 60^\circ$, $-10^\circ/+85^\circ$ • Percent Grade Ranges: $\pm 13\%$, $\pm 45\%$ • Degree Markings: $\pm 1^\circ$, $\pm 2^\circ$, $\pm 5^\circ$ 		
 <p>2056E</p>	<p>Applications:</p> <ul style="list-style-type: none"> • Quick Visual of Angle for - Platform Level • Roll Over Early Warning • Boom Angle • Mast Angle • Slope Indication • Percent Grade • Load Balancing • Ball Banking • Slip or Skid indication 		
 <p>2064EG-SPL</p>	<p>Equipment:</p> <p>Aerial lift trucks, boom trucks, cranes, utility trucks, aerial ladder rigs, fire trucks, construction equipment, fork lifts, graders and excavators, aircraft, marine vessels, barges, sail boats, commercial, offshore, submarines, military and government vehicles.</p>		
 <p>5012P</p>			
 <p>4120WWL-12V</p>			
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