

# 1000 Series Inclinerometers

## Mechanical "Ball-in-Tube" Tilt Angle Indicators



Part Number Shown: 1023W1SPL3-10/15/20

## Rugged All-weather Accurate Slope Indicators Instantly Alert the Operator to Out-of-level or Tip-over Danger

### Description

Rieker manufactures mechanical inclinometers using precision glass tube and ball construction with engraved markings and customer specified color warning zones. All our tubes are filled with a proprietary damping fluid that controls the movement of the ball for a smooth and error free roll. 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.

### Applications

- Visual Reference of Slope Angle
- Roll or Tip-over Prevention
- Platform Leveling
- Load Balancing
- Measuring Degree of Angle or Slope

### Equipment Types

Aerial lift trucks, Aircraft, Bucket/Utility trucks, Cranes, Construction Equipment, Conveyor and Material Handling Equipment, Emergency and Fire Aerial Ladder trucks, Government and Military Vehicles, Marine Vessels, Recreational Vehicles (RV), Trailers.

Models 1017(-12VT) and 1023(-12VT) comply with National Fire Protection Association 1901 Standards for Automotive Fire Apparatus.

### Features

- ALL-Weather - Will Not Rust or Hang Up
- Easy Installation - Field Retrofitable
- Color Warning Zones - Customizable
- Backlit Models - Night Operation
- Extreme Shock / Vibration Resistant
- UV Resistant
- Wide Operating Temperature Range

### Custom Color Warning Zones

The color zone or "SPL" models are designed to instantly alert the operator of tip-over danger utilizing highly visible color zones - based on degree settings specified by the customer specified at time of order. See "PART NUMBER CONFIGURATION" on the next page, lower left column in purple.








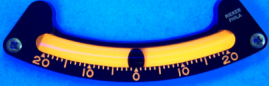



### Backlit Models

These highly visible backlit models use an innovative technique that lights the tube (not the housing) so you can actually see the ball position. Specifically developed for fire trucks that are required to have all instrumentation lighted, the "-12VT" models are well suited for any industry when instrumentation must be visible in low light or night operation.

Available with customer specified color zones right on the tube for best visibility.

# 1000 Series Inclinometers

## Mechanical "Ball-in-Tube" Tilt Angle Indicators

General Technical Data for 1017 and 1023 Models				
<b>CASE MATERIAL</b>		ALUMINUM, BLACK PAINTED; ENGRAVED MARKINGS FILLED WHITE		
<b>TUBE CONSTRUCTION</b>		PRECISION GLASS TUBE, DAMPING FLUID FILLED; BLACK BALL		
<b>OPERATING TEMPERATURE</b>		-40°C TO +72°C (-40°F TO +162°F)		
±5/±10° 1017 Model Ordering Specifications			±20° 1023 Model Ordering Specifications	
<b>DIMENSIONS</b>		6"w X 1.625"h" X 0.625"d		
1005	RANGE	±5°		
	MARKINGS	0.5°		
1017	RANGE	±10°		
	MARKINGS	2°		
1017W1	RANGE	±10°		
	MARKINGS	1°		
1017SPL2*	RANGE	±10°		
	MARKINGS	2°		
	COLOR 1		5-0-5	
	COLOR 2		10-5	5-10
	PN SHOWN		1017SPL2-5/10	
1017SPL3*	RANGE	±10°		
	MARKINGS	2°		
	COLOR 1		3.5-0-3.5	
	COLOR 2		8-5	5-8
	COLOR 3		10-8	8-10
	PN SHOWN		1017SPL3-3.5/8/10	
1023	RANGE	±20°		
	MARKINGS	5°		
1023W1	RANGE	±20°		
	MARKINGS	1°		
1023N	RANGE	±20°		
	MARKINGS	1°		
Fluorescent yellow background and engraved markings				
1023SPL2*	RANGE	±20°		
	MARKINGS	5°		
	COLOR 1		10-0-10	
	COLOR 2		20-10	10-20
	PN SHOWN		1023SPL2-10/20	
1023W1SPL3*	RANGE	±20°		
	MARKINGS	1°		
	COLOR 1		10-0-10	
	COLOR 2		15-10	10-15
	COLOR 3		20-15	15-20
	PN SHOWN		1023W1SPL3-10/15/20	
<b>PART NUMBER WORKSHEET</b>	RANGE		<b>CONFIGURE YOUR COLOR ZONES - FILL IN THE BLANKS SIMILAR TO THE EXAMPLES SHOWN ON THIS PAGE.</b>	
	MARKINGS			
	COLOR 1			
	COLOR 2			
	COLOR 3			
	PN SUBMITTAL			
<p><b>EXAMPLE:</b> 1017SPL3-3.5/8/10          1017 = base model (±10°)          SPL = part has custom color zones          2 = number of color zones          -3.5/8/10 = degree range for each color zone (±)          GREEN = safe operation under ±3.5°          YELLOW = warning zone between 3.5 and 8°          RED = unsafe operation over ±8°</p>				
1023W1SPL3-12VT*	RANGE	±20°		
	MARKINGS	5°		
	COLOR 1		8-0-8	
	COLOR 2		12-8	8-12
	COLOR 3		20-12	12-20
	PN SHOWN		1023SPL3-8/12/20-12VT	
<p><b>NOTE:</b> All 1000 Series are available with color zones. *The "SPL" models shown are samples of customer specified color zones. Zones dependent upon customer specified degree ranges and colors. Models with custom color zones have extended part numbers - based on degree range and number of zones. If you have any questions on how to create the correct color zone part number, give us a call today for assistance.</p>				

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