ENGINEERED SENSOR SOLUTIONS

Custom Sensor Solutions
Jewell’s OEM sensor packages mount directly to critical system components. We can customize Jewell sensors to your specific application requirements. Small and lightweight, OEM & Industrial Specialized Research projects worldwide; contact us today about your engineering project.

Tilt monitoring is a low cost, high accuracy monitoring method for solutions can help you make sense out of motion! Jewell’s high precision tiltmeters and inclinometers are preferred by volcanologists, engineers, and scientists in many other fields such as aerospace, medical, telecommunications, and seismological research. We manufacture our inclinometers for both horizontal and vertical applications to monitor tilt, deflection, and change in slope on bridges, roadways, buildings, and other structures. Jewell’s inclinometers are portable, easy to install, and provide high accuracy measurements.

OEM & Industrial
Jewell offers high performance, high precision, and reliable force-balanced and electrostatic accelerometers and inclinometers for a diverse group of industries, such as aerospace, medical, telecommunications, and rail markets. We manufacture our inclinometers for both horizontal and vertical applications to monitor tilt, deflection, and change in slope on bridges, roadways, buildings, and other structures. Jewell’s inclinometers are portable, easy to install, and provide high accuracy measurements.

Custom Solution Services
Jewell offers fully custom-designed and manufacture inclinometers and other micro-sensor solutions for your unique application needs. Our engineers work with you to design a sensor solution that fits within your budget, project timeline, and performance requirements.

Other Product Groups Available:
- Force-Balanced Precision Accelerometer Selector Guide
- Force-Balanced Precision Instrument Selector Guide
- Electrolytic Tilt Sensors and Accessories Selector Guide

Distributed By:
- RailStar Precision
- Manchester Facility

Exceptional Customer Service
We provide technical support, sales, and engineering services. Cooperation, communication, and responsiveness are the cornerstone of our many successful, long-term customer relationships. We act as an extension of our customers’ engineering teams to provide peak performance and on-time delivery to meet our customer’s requirements.

GEOCHEMICAL & STRUCTURAL ENGINEERING

Tilt monitoring is a low cost, high accuracy monitoring method for solutions can help you make sense out of motion! Jewell’s high precision tiltmeters and inclinometers are preferred by volcanologists, engineers, and scientists in many other fields such as aerospace, medical, telecommunications, and seismological research. We manufacture our inclinometers for both horizontal and vertical applications to monitor tilt, deflection, and change in slope on bridges, roadways, buildings, and other structures. Jewell’s inclinometers are portable, easy to install, and provide high accuracy measurements.

OEM & Industrial
Jewell offers high performance, high precision, and reliable force-balanced and electrostatic accelerometers and inclinometers for a diverse group of industries, such as aerospace, medical, telecommunications, and rail markets. We manufacture our inclinometers for both horizontal and vertical applications to monitor tilt, deflection, and change in slope on bridges, roadways, buildings, and other structures. Jewell’s inclinometers are portable, easy to install, and provide high accuracy measurements.

Custom Solution Services
Jewell offers fully custom-designed and manufacture inclinometers and other micro-sensor solutions for your unique application needs. Our engineers work with you to design a sensor solution that fits within your budget, project timeline, and performance requirements.

Other Product Groups Available:
- Force-Balanced Precision Accelerometer Selector Guide
- Force-Balanced Precision Instrument Selector Guide
- Electrolytic Tilt Sensors and Accessories Selector Guide

Distributed By:
- RailStar Precision
- Manchester Facility

Exceptional Customer Service
We provide technical support, sales, and engineering services. Cooperation, communication, and responsiveness are the cornerstone of our many successful, long-term customer relationships. We act as an extension of our customers’ engineering teams to provide peak performance and on-time delivery to meet our customer’s requirements.

GEOTECHNICAL & STRUCTURAL ENGINEERING

Tilt monitoring is a low cost, high accuracy monitoring method for solutions can help you make sense out of motion! Jewell’s high precision tiltmeters and inclinometers are preferred by volcanologists, engineers, and scientists in many other fields such as aerospace, medical, telecommunications, and seismological research. We manufacture our inclinometers for both horizontal and vertical applications to monitor tilt, deflection, and change in slope on bridges, roadways, buildings, and other structures. Jewell’s inclinometers are portable, easy to install, and provide high accuracy measurements.

OEM & Industrial
Jewell offers high performance, high precision, and reliable force-balanced and electrostatic accelerometers and inclinometers for a diverse group of industries, such as aerospace, medical, telecommunications, and rail markets. We manufacture our inclinometers for both horizontal and vertical applications to monitor tilt, deflection, and change in slope on bridges, roadways, buildings, and other structures. Jewell’s inclinometers are portable, easy to install, and provide high accuracy measurements.

Custom Solution Services
Jewell offers fully custom-designed and manufacture inclinometers and other micro-sensor solutions for your unique application needs. Our engineers work with you to design a sensor solution that fits within your budget, project timeline, and performance requirements.

Other Product Groups Available:
- Force-Balanced Precision Accelerometer Selector Guide
- Force-Balanced Precision Instrument Selector Guide
- Electrolytic Tilt Sensors and Accessories Selector Guide

Distributed By:
- RailStar Precision
- Manchester Facility

Exceptional Customer Service
We provide technical support, sales, and engineering services. Cooperation, communication, and responsiveness are the cornerstone of our many successful, long-term customer relationships. We act as an extension of our customers’ engineering teams to provide peak performance and on-time delivery to meet our customer’s requirements.

GEOTECHNICAL & STRUCTURAL ENGINEERING

Tilt monitoring is a low cost, high accuracy monitoring method for solutions can help you make sense out of motion! Jewell’s high precision tiltmeters and inclinometers are preferred by volcanologists, engineers, and scientists in many other fields such as aerospace, medical, telecommunications, and seismological research. We manufacture our inclinometers for both horizontal and vertical applications to monitor tilt, deflection, and change in slope on bridges, roadways, buildings, and other structures. Jewell’s inclinometers are portable, easy to install, and provide high accuracy measurements.

OEM & Industrial
Jewell offers high performance, high precision, and reliable force-balanced and electrostatic accelerometers and inclinometers for a diverse group of industries, such as aerospace, medical, telecommunications, and rail markets. We manufacture our inclinometers for both horizontal and vertical applications to monitor tilt, deflection, and change in slope on bridges, roadways, buildings, and other structures. Jewell’s inclinometers are portable, easy to install, and provide high accuracy measurements.

Custom Solution Services
Jewell offers fully custom-designed and manufacture inclinometers and other micro-sensor solutions for your unique application needs. Our engineers work with you to design a sensor solution that fits within your budget, project timeline, and performance requirements.

Other Product Groups Available:
- Force-Balanced Precision Accelerometer Selector Guide
- Force-Balanced Precision Instrument Selector Guide
- Electrolytic Tilt Sensors and Accessories Selector Guide

Distributed By:
- RailStar Precision
- Manchester Facility

Exceptional Customer Service
We provide technical support, sales, and engineering services. Cooperation, communication, and responsiveness are the cornerstone of our many successful, long-term customer relationships. We act as an extension of our customers’ engineering teams to provide peak performance and on-time delivery to meet our customer’s requirements.
### Features & Benefits

- **Convenient OEM package**
- **Analog, digital, or 4-20mA output available**
- **User programmable sampling features**

### Performance Specs

#### Dimensions & Weight

<table>
<thead>
<tr>
<th>Dimension</th>
<th>A904-T</th>
<th>A900</th>
<th>C900</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enclosure</td>
<td>OEM</td>
<td>OEM</td>
<td>OEM</td>
</tr>
<tr>
<td>Dimensions (LxWxH)</td>
<td>5.1 x 5.1 x 1.6 cm</td>
<td>11 x 2.3 x 2.3 cm</td>
<td>6.7 x 6.7 x 2.5 cm</td>
</tr>
<tr>
<td>Weight</td>
<td>0.5 oz (15 g)</td>
<td>0.5 oz (15 g)</td>
<td>1.1 oz (31 g)</td>
</tr>
</tbody>
</table>

#### Temperature Range

<table>
<thead>
<tr>
<th>Range</th>
<th>A904-T</th>
<th>A900</th>
<th>C900</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage Temperature</td>
<td>-40° to +85°C</td>
<td>-40° to +85°C</td>
<td>-40°C to +70°C</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-40° to +85°C</td>
<td>-40° to +85°C</td>
<td>-30°C to +70°C</td>
</tr>
</tbody>
</table>

#### Available Channels

- X-tilt, Y-tilt,°C
- X-tilt, °C
- X-tilt, Y-tilt, °C, S/N

#### Sensor Output

- ±2.5V DC
- 0-5V DC
- 4-20mA

#### Power Requirements

- 8-24V DC
- 112-29V DC
- ±25

#### Contact Resistance

- 10 Ohm
- 7 Ohm

### Electronic Specifications

#### Electrical

<table>
<thead>
<tr>
<th>Parameter</th>
<th>A904-T</th>
<th>A900</th>
<th>C900</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery Power</td>
<td>9-24V DC</td>
<td>112-29V DC</td>
<td>±25</td>
</tr>
<tr>
<td>Dimensions (LxWxH)</td>
<td>5.1 x 5.1 x 1.6 cm</td>
<td>11 x 2.3 x 2.3 cm</td>
<td>6.7 x 6.7 x 2.5 cm</td>
</tr>
<tr>
<td>Weight</td>
<td>0.5 oz (15 g)</td>
<td>0.5 oz (15 g)</td>
<td>1.1 oz (31 g)</td>
</tr>
<tr>
<td>Temperature Range</td>
<td>-40° to +85°C</td>
<td>-40° to +85°C</td>
<td>-40°C to +70°C</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-40° to +85°C</td>
<td>-40° to +85°C</td>
<td>-30°C to +70°C</td>
</tr>
</tbody>
</table>

#### Environmental

<table>
<thead>
<tr>
<th>Parameter</th>
<th>A904-T</th>
<th>A900</th>
<th>C900</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (LxWxH)</td>
<td>5.1 x 5.1 x 1.6 cm</td>
<td>11 x 2.3 x 2.3 cm</td>
<td>6.7 x 6.7 x 2.5 cm</td>
</tr>
<tr>
<td>Weight</td>
<td>0.5 oz (15 g)</td>
<td>0.5 oz (15 g)</td>
<td>1.1 oz (31 g)</td>
</tr>
<tr>
<td>Temperature Range</td>
<td>-40° to +85°C</td>
<td>-40° to +85°C</td>
<td>-40°C to +70°C</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-40° to +85°C</td>
<td>-40° to +85°C</td>
<td>-30°C to +70°C</td>
</tr>
</tbody>
</table>

#### Mechanical

<table>
<thead>
<tr>
<th>Parameter</th>
<th>A904-T</th>
<th>A900</th>
<th>C900</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (LxWxH)</td>
<td>5.1 x 5.1 x 1.6 cm</td>
<td>11 x 2.3 x 2.3 cm</td>
<td>6.7 x 6.7 x 2.5 cm</td>
</tr>
<tr>
<td>Weight</td>
<td>0.5 oz (15 g)</td>
<td>0.5 oz (15 g)</td>
<td>1.1 oz (31 g)</td>
</tr>
<tr>
<td>Temperature Range</td>
<td>-40° to +85°C</td>
<td>-40° to +85°C</td>
<td>-40°C to +70°C</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-40° to +85°C</td>
<td>-40° to +85°C</td>
<td>-30°C to +70°C</td>
</tr>
</tbody>
</table>

### Specifications

- **Analog Clinometer**
- **Digital Clinometer**
- **IRIS Tilt-switch & Controller**
- **Platform Mount**
- **Geodetic Tiltmeter**
- **Geophysical Research**