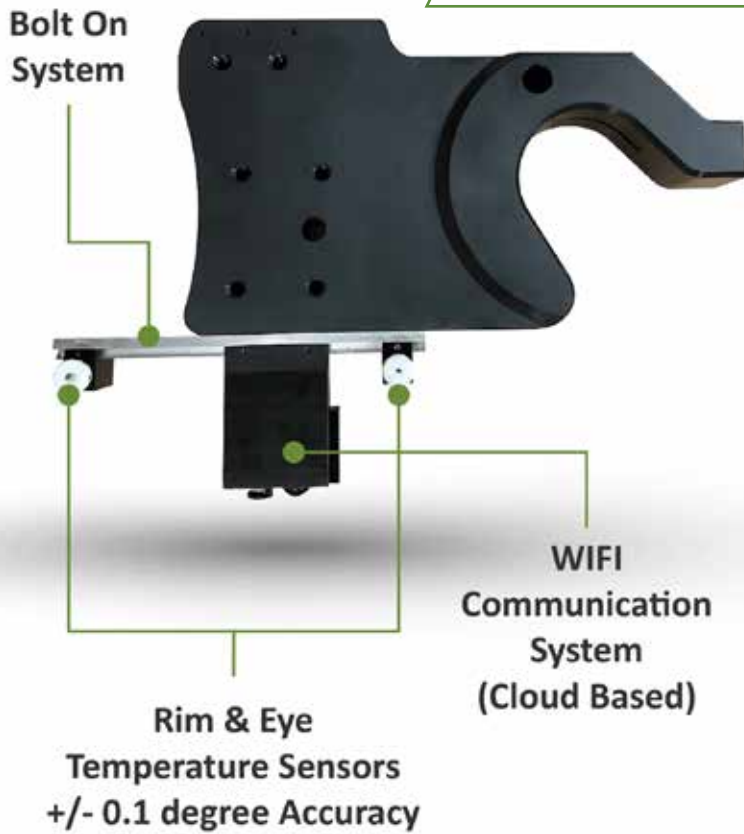




SawSense Temperature Monitoring System



Williams and White has partnered with the innovative scientific solutions provider, FPIinnovations, to offer a new technology to the sawmill industry.

This PATENTED technology accurately measures, in real time, the performance of the saw when in the cut for both circular and band saws, using two contacted temperature sensors.

The SMARTGuide technology harnesses The Industrial Internet of Things (IIOT) to drive mill operations and efficiency to the forefront of the industry.

Highlights:

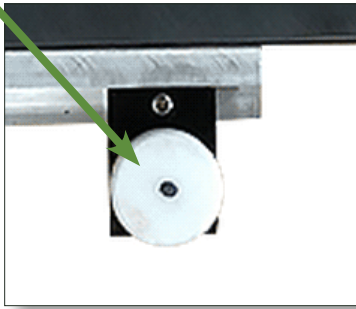
- ✓ **Reduces oil consumption up to 40%** → Reduces corrosion and pooling; less moisture in sawdust
- ✓ **Rechargeable batteries** → Up to 20 hours of life between charges
- ✓ **0-80°C temperature range** → +/- 0.1°C Accuracy
- ✓ **For both circle and band saw systems** → Can be mounted on any saw guide
- ✓ **Two sensors on the eye & rim of a saw** → Ensures optimal saw performance
- ✓ **Contact Sensors** → Non-contact systems are proven to be inaccurate in wet environments. Moisture absorbs IR radiation, affecting the signal



Key Features

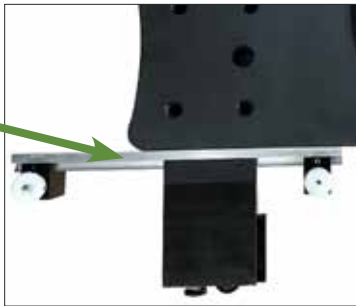
Teflon Contact sensor system

- + Monitoring rim and eye temperatures with 2 sensors
- + Moves to comply with the saw body, ensuring 100% contact/ increased accuracy
- + Accurate measurement +/- 0.1 degrees
- + Excellent wear resistance



Bolt on system

- + Modify existing saw guides to mount measurement system



WIFI communication

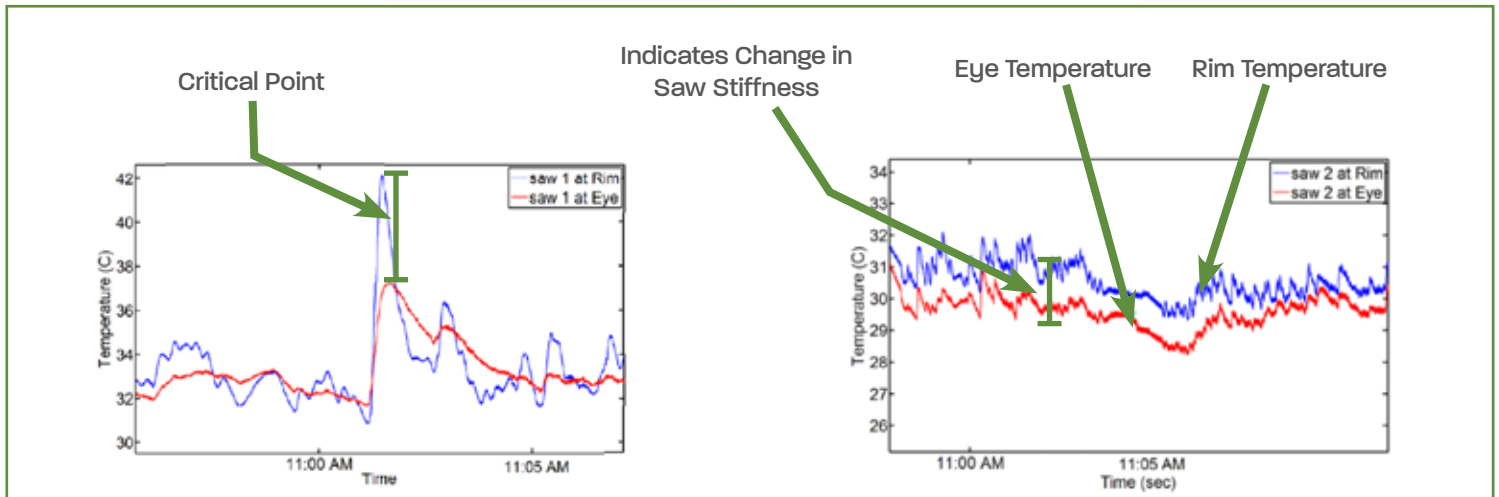
- + Continuous monitoring
- + Cloud based system for remote monitoring



Proven in mill applications

SawSense Monitoring

- + Measure and log temperature performance
- + Real time analytics



Benefits to the sawmill

- ✓ **Decreases sawing deviation** → Prevents wrecks/unscheduled saw change
- ✓ **Rim & eye real time measurement** → Ensures optimal saw performance
- ✓ **Higher chip quality** → Higher value
- ✓ **Increases mill speed** → Higher profits
- ✓ **Alarm notification system** → Reduces saw and guide damage and downtime
- ✓ **Identifies performance issues in real time** → Determine or eliminate potential problem areas

Williams and White reserves the right to alter or amend specifications without prior notice

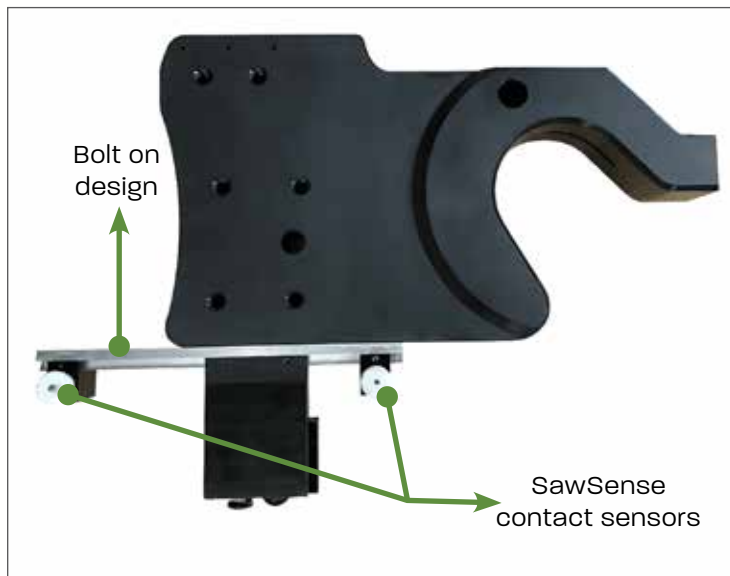
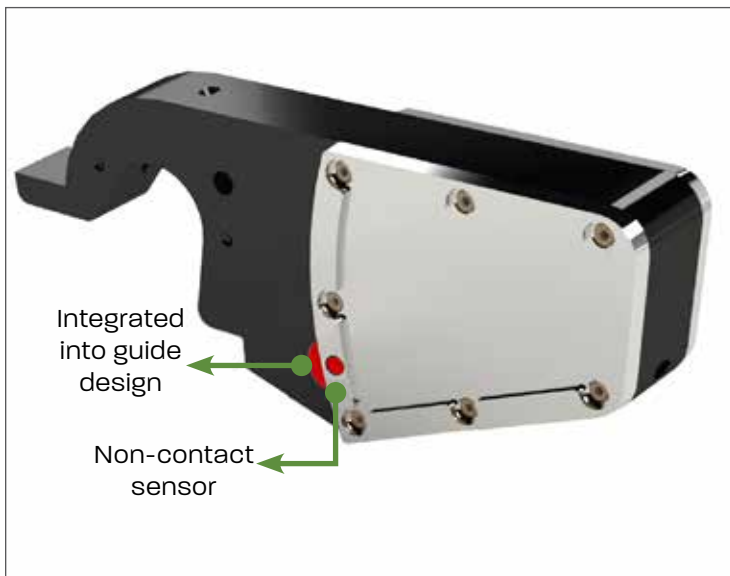


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Contact Vs. Non-contact Temperature Sensors



Why choose the Williams and White SawSense Temperature Sensor?

Non-contact Sensors	Contact SawSense Temperature Sensor
<p><input checked="" type="checkbox"/> Inaccurate; Saw dust, water, coolant and any external factors can block IR beam</p>	<p><input checked="" type="checkbox"/> Accurate within 0.1°C</p>
<p><input checked="" type="checkbox"/> Single sensor; Does not indicate temperature difference between eye and rim</p>	<p><input checked="" type="checkbox"/> Rim and eye sensors; Indicates saw blade stiffness. Difference in temperature at the eye and rim of a saw blade causes twisting and dishing. Resulting in saw plate damage and cut deviation.</p>
<p><input checked="" type="checkbox"/> Integrated in saw guide; Requires re-machining into new saw guide in case of guide damage</p>	<p><input checked="" type="checkbox"/> Modular bolt on attachment; Easy mounting and dismounting from different saw guides, enabling change over for target size or damaged guides.</p>
<p><input checked="" type="checkbox"/> High modification cost; Guides and babbitt molds require modification/redesign to accommodate sensors</p>	<p><input checked="" type="checkbox"/> No modification cost; Minimal saw guide modification and adjustments is needed due to bolt on design</p>

