

WATCHMAN[®]

REAL-TIME DATA. SMARTER DECISIONS.



HENDRICKSON
The World Rides On Us[®]

WATCHMAN®

TRAILER SENSING TECHNOLOGY

Hendrickson's WATCHMAN® trailer sensing technology delivers smart, real-time insights for tires and wheel-ends through Bluetooth® and J1939 CAN bus connectivity. It equips fleets with the critical data they need to make informed maintenance decisions, whether the issue is urgent or routine. At the core of the system, the WATCHMAN receiver provides the intelligence to deliver actionable alerts, not just basic monitoring. With its wireless architecture and modular sensor design, WATCHMAN enhances diagnostics and streamlines maintenance workflows for a more efficient fleet operation.

IMPORTANCE OF SMART TRAILER TECHNOLOGY

Smart technologies are transforming the trailer industry, with innovations like tire pressure sensors and advanced telematics turning trailers into fully connected assets.

These integrated systems represent the future of transportation, driving the evolution of smarter, data-enabled trailer solutions such as Hendrickson's WATCHMAN® trailer sensing technology.

Smart trailer benefits can include:

- Real-Time Tracking and Visibility
- Data-Driven Decision Making
- Reduced Downtime
- Enhanced Fleet Service and Maintenance
- Maximized Tire Performance
- Extended Component Life
- Improved Fuel Efficiency
- Streamlined Fleet Operations

HOW WATCHMAN® WORKS?

WATCHMAN® trailer wheel-end sensor technology seamlessly integrates with TIREMAAX® PRO or PRO-LB tire pressure control systems equipped with grease hubcaps to deliver real-time visibility into critical component health, including tire pressure and wheel-end temperature. Integrated directly into a specially designed TIREMAAX PRO or PRO-LB hubcap, this advanced WATCHMAN wheel-end sensor detects problems the moment they occur and transmits data to the WATCHMAN receiver. The receiver converts this information into actionable insights, which are then shared with telematic providers or WATCHMAN mobile app, empowering quick, informed decisions to keep operations moving efficiently.



WATCHMAN APP

The Hendrickson WATCHMAN App provides fleets a fast, reliable way to monitor wheel-end health from any mobile device:

- Instant Bluetooth® pairing with QR/NFC registration on sensors for quick setup.
- Real-time wheel-end and tire condition updates at the touch of a button.
- Ideal for fleets without full telematics to support fast, confident trip inspections.



Scan to download
the WATCHMAN App



WATCHMAN® Features and Benefits

Long-Life Battery

- Larger capacity battery designed to last the life of the system
- No replacement or service required

Hubcap-Mounted Design

- Integrates into TIREMAAX® PRO and PRO-LB systems with grease hubcaps
- Permanent installation helps prevent loss or theft
- Unaffected by tire service
- No sensor removal during tire maintenance

Receiver

- Provides fleets with actionable insights for both critical and non-critical alerts
- Transmits sensor data to approved telematics systems
- Helps prioritize maintenance via Bluetooth and J1939 CAN Bus

Bluetooth® Connectivity

- Bluetooth-enabled sensor connection
- Direct link to Hendrickson's WATCHMAN® mobile app
- Compatible with approved telematics platforms

System Compatibility

- Engineered for direct compatibility with TIREMAAX® PRO and PRO-LB systems equipped with grease hubcaps
- Ensures effortless system integration
- Ensures smooth and reliable operation

Intelligent Fleet Management

- Combines wireless connectivity and advanced diagnostics to help improve service and reduce downtime

All-in-One Integration

- Enables simple, direct integration with wireless communication while supporting multiple sensor types
- Fleets can add and pair new physical sensors through the app for quick, modular expansion

Specifications

COMPATIBILITY	
Tire Inflation Systems	TIREMAAX PRO or PRO-LB
Spindle Types	HP or HN®
Hubcap Type	Grease only

Warranty*

COMPONENT	PARTS	LABOR
WATCHMAN		
Hubcap	5 years	5 years
Receiver	3 years	3 years
Sensor	3 years	3 years

* Contact your local Hendrickson representative for complete warranty terms, conditions and limitations

FREQUENTLY ASKED QUESTIONS

1. What makes WATCHMAN® trailer sensing technology different from other systems?

Unlike valve stem or strap mounted sensors, Hendrickson's hubcap-mounted design offers a cleaner installation, longer battery life and protection from road damage, all while working seamlessly with Hendrickson TIREMAAX® PRO or PRO-LB tire pressure control systems and trailer telematics.

2. Can WATCHMAN be added to existing trailers?

Yes. WATCHMAN technology can be added to existing trailers that are already equipped with TIREMAAX PRO or PRO-LB tire pressure control systems with grease hubcaps. Simply replace the existing hubcap with the specially designed hubcap for WATCHMAN integration that includes the sensor. Additionally, a WATCHMAN receiver will need to be added and mounted near the TIREMAAX controller.

3. Does it work without telematics?

Yes. Fleets can use the Hendrickson WATCHMAN app for local monitoring. The app is available on iOS or Android.

4. Will customers need a subscription?

No subscription is required for Hendrickson equipment. However, please note that most telematics providers do require a subscription to interpret and display the data for customers. Please contact your telematics provider for more information.

5. What is the installation process like?

OEM: Installed during suspension assembly.

Aftermarket: For current TIREMAAX PRO or PRO-LB systems with grease hubcaps that don't feature WATCHMAN technology, simply replace the existing TIREMAAX hubcaps with specially designed TIREMAAX hubcaps for WATCHMAN integration. No tire dismounting is required. Refer to Hendrickson publication T51007 WATCHMAN Installation and Service Procedures for complete installation instructions.

6. Can I use a standard TIREMAAX hubcap with this sensor?

No, the current standard TIREMAAX PRO or PRO-LB hubcap cannot be used with this sensor. A specially designed TIREMAAX PRO or PRO-LB hubcap with additional holes allows it to communicate with the WATCHMAN sensor.

7. Does installing WATCHMAN affect warranty coverage?

Customers should always contact Hendrickson Technical Services before performing any hubcap swaps to confirm proper installation procedures and maintain applicable Hendrickson warranty coverage.

8. What are the benefits for fleets without telematics?

Provides fleets with real-time data to assist with pre-trip inspections and diagnose tire and wheel-end issues.

These products are covered by at least one or more U.S. and / or foreign patents and / or pending U.S. and / or foreign patent applications. See Hendrickson for details.

Actual product performance may vary depending upon vehicle configuration, operation, service and other factors.

All applications must comply with applicable Hendrickson specifications and must be approved by the respective vehicle manufacturer with the vehicle in its original, as-built configuration.

Contact Hendrickson for additional details regarding specifications, applications, capacities, operation, service and maintenance instructions.

Call Hendrickson at 330.489.0045 or 866.RIDEAIR (743.3247) for additional information.



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