MoW Telematics

Optimize Operations. Enhance Efficiency. Reduce Downtime.

ZTR's MoW Telematics solution delivers real-time insight into the location, productivity, utilization and condition of Maintenance of Way equipment. Through remote monitoring and actionable insights, MoW operators can deploy equipment more efficiently, identify maintenance issues before failure occurs, and maximize asset availability, resulting in safer, cost-effective operations.

Key Benefits

Optimize Equipment Utilization
Understand where and how equipment is being used

Improve Maintenance Processes
Identify issues early and shift to proactive maintenance

Maximize Production Efficiency
Track work head cycle counts

Data-Driven Decisions
Use data to plan, allocate, and operate more effectively

For Every Type of MoW Equipment

- **On-track equipment (tampers, spikers, regulators)**
- **Hi-rail equipment**
- **Heavy duty equipment**

Designed to work across a wide range of machines and applications.

Technology Overview

Telematics Hardware

Compact, rugged, and railway-grade device to collect equipment data including location, usage, and health

Wireless Connectivity

Secure data transmission via cellular networks

Vision Platform

Advanced online portal for remote monitoring, actionable insights, alerts, and reports

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Comprehensive Remote Monitoring Data

• **GPS Position** – Real-time location tracking for improved asset visibility.

• **Battery Voltage** – Monitor power levels to prevent unexpected failures.

• **Run Hours & Work Time** – Track equipment usage and schedule preventive maintenance.

• **Engine Status** – Gain insights into equipment operation patterns.

• **Low Battery Alarms** – Get notified of battery issues before they cause downtime.

• **Coolant Temperature & Oil Pressure** – Monitor engine health to prevent overheating or pressure failures.

• **Engine Speed, Load Percentage & Torque Percentage** – Ensure optimal engine performance.

• **Ash/Soot Load Percentage** – Track exhaust after treatment system performance for compliance and efficiency.

• **Fuel Rate** – Monitor fuel consumption and optimize efficiency.

• **Boost Pressure & Intake Manifold Temperature** – Detect potential engine issues early.

• **Air Inlet Pressure** – Identify airflow restrictions impacting performance.

• **Cycle Counts** – Track operational cycles for maintenance planning.

Built on ZTR's M9 Telematics Device

The M9 is a rugged, field-proven telematics device designed to reliably capture and transmit equipment data across a wide range of operating environments.

• Rugged, IP67-rated design for harsh conditions
• LTE connectivity with GPS tracking for reliable, real-time visibility
• Supports light and heavy-duty equipment with integrated vehicle interfaces
• Internal battery backup for continuous operation
• CAN/ECU integration for equipment health and performance data

Trusted by the Industry

~40 years of railway experience
Proven deployments across large fleets
End-to-end telematics and data platform
24x7 support - from installation to ongoing operations

Scan to Learn More

Contact ZTR:

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