

MERLIN EQUIPMENT PTE LTD

TYRE PRESSURE MANAGEMENT SYSTEMS

Commercial & Heavy Equipment Applications — Global Supply — Full Technical Support

Overview

Merlin Equipment Pte Ltd supplies and supports advanced Tyre Pressure Management Systems (TPMS) for a wide range of commercial vehicle and heavy equipment applications. Our solutions improve safety, extend tyre life, reduce fuel consumption, and lower the total cost of ownership for fleet operators and site managers worldwide.

We supply complete TPMS systems, individual components, and integration services — backed by full technical support from our team of tyre and vehicle specialists.

What is a Tyre Pressure Management System?

A Tyre Pressure Management System (TPMS), the system continuously measures tyre pressure and temperature, alerting operators and central asset management hubs to deviations. For commercial and heavy equipment operators, TPMS delivers measurable, proven benefits:

Benefit	
Tyre Life Extension	Up to 25% longer tyre service life
Fuel Savings	Up to 3% fuel reduction through lower rolling resistance
Safety Improvement	Significant reduction in tyre-related incidents and blowouts
Downtime Reduction	Fewer unplanned stops and tyre replacements
Fleet Intelligence	Real-time data for predictive maintenance

Applications

Commercial Vehicle Applications

TPMS for on-highway commercial vehicles delivers compliance, safety, and operating cost savings across entire transport fleets:

- Long-haul semi-trailer trucks and prime movers
- Rigid trucks and distribution vehicles
- Bus and coach fleets
- Municipal and waste collection vehicles
- Refrigerated transport (reefer) vehicles
- Multi-axle heavy transport combinations
- Tanker trucks and bulk liquid transport vehicles
- Emergency services and specialist transport vehicles

Heavy Equipment Applications

Off-highway TPMS systems are ruggedised for extreme operating environments — delivering maximum uptime and safety in mining, construction, and agricultural applications:

- Mining haul trucks and dump trucks (including ultra-class trucks)
- Earthmoving equipment — scrapers, motor graders, bulldozers
- Construction equipment — wheel loaders, articulated dump trucks, compactors
- Agricultural tractors, sprayers, and combine harvesters
- Forestry machinery — forwarders and harvesters
- Military and defence vehicles
- Port and terminal handling equipment — reach stackers, container handlers
- Oil & gas field vehicles and surface equipment

TPMS System Components & Supply

Merlin Equipment supplies complete TPMS systems and individual components:

Tyre Pressure Sensors

Wheel-mounted sensors — both valve-stem and band-mount configurations — for continuous monitoring of tyre pressure and internal temperature. Available for all tyre sizes, rim types, and load ratings.

Control Units & In-Cab Displays

Operator interface control heads, digital pressure display panels, alarm and warning modules, and vehicle network integration units for CAN bus and proprietary ECU systems.

Wireless & Telematics Integration

Wireless TPMS receivers, RF antenna systems, and telematics gateway modules for integration with fleet management platforms and remote monitoring systems.

Valves & Pneumatic Fittings

TPMS-compatible inflation valves, check valves, deflation valves, pressure regulators, and all ancillary pneumatic fittings and connectors.

Complete System Kits

Turn-key TPMS kits configured for specific vehicle types and applications — supplied with all hardware, firmware, wiring, and full installation and commissioning documentation.

Full Technical Support

Merlin Equipment's TPMS technical support team provides comprehensive assistance at every stage:

- Application engineering — system selection and sizing for your specific vehicle and terrain
- Load and inflation pressure calculations for compliance and performance
- Installation guidance and commissioning support
- System calibration and performance verification
- Fault diagnosis and remote troubleshooting
- Integration with existing vehicle telematics and fleet management systems
- Ongoing maintenance planning and service interval recommendations

Technical support is available 24/7 for commercial transport operators, mine site maintenance teams, OEM integrators, and equipment manufacturers.

CONTACT MERLIN EQUIPMENT — TPMS SOLUTIONS

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