



TPMS

IMPORTANCE. INFLUENCE. IMPACT.

Olga Matsveichyk
General Manager
Magna Tyres Singapore Pte.Ltd

Always Connected.

MAGNA TPMS - a commitment to delivering unparalleled insights and operational efficiency for your fleet, setting the standard for precision, confidence, and always-on connectivity.

- **Uninterrupted Connectivity, Anytime, Anywhere**
- **Beyond Monitoring: A Comprehensive Fleet Management Tool**
- **Global Accessibility with User-Friendly Interfaces**
- **Effortless Installation, Universal Compatibility**
- **Cost-Effective Fleet Management**
- **Precision, Confidence, and Cost Reduction**



Value Proposition.

- **Safety** – employees/work environment & the load being transported.
- **Fuel efficiency** – running at optimum set-up.
- **Asset Management** – getting the best from your assets.
- **Security** – alert if a vehicle is stolen or unauthorised movement, tracking.
- **Meeting legal requirements** – highlighting potential problems.
- **Resource management** – right people in the right places.
- **Fleet efficiency** – meeting deadlines.
- **Journey health & Pro-active maintenance** – highlighting anomalies early and initiating corrective action.
- **Fleet Decarbonisation** - mitigating climate change, improving air quality, enhancing energy security, saving costs, and complying with regulations.



Benefits of Adopting TPMS.



Valuable Feedback and Insights

Gain valuable feedback from the field

Vehicle data collection → Operational Insights
→ Informed Decisions



Strengthened Customer Relationships

Proactively engage with customers, providing real-time feedback and fostering a consultative relationship
→ Customer Loyalty



Enhanced Operational Efficiency

Offer the required service based on usage data. Real-time feedback for better customer support.
Improved service response and targeted support.



Asset Management

Ensure that your asset is maintained and operating within the specified conditions to ensure contract conditions and terms are met.



Markets.

- Any market
- Any machine or vehicle
- Any tyre
- Any manufacturer



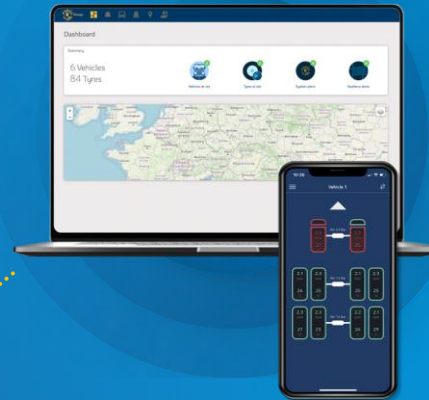
No limitations on number of tyres.

Key Components.



TPMS Sensor

- On-Valve Sensor
- Standard & Large Bore
- No need to remove tyre



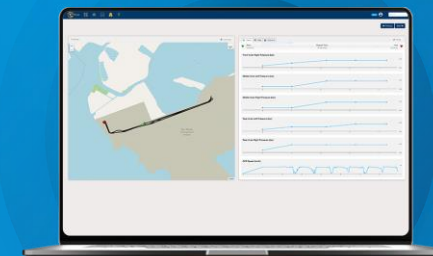
Insights

- Helps diagnose any problems
- Easy to configure parameters
- Easy to set up
- Alerts 'on-the-go'



Magna Gateway

- Flexible Hardware with multiple I/O capability
- Cellular/GPS/Bluetooth
- Battery Backed



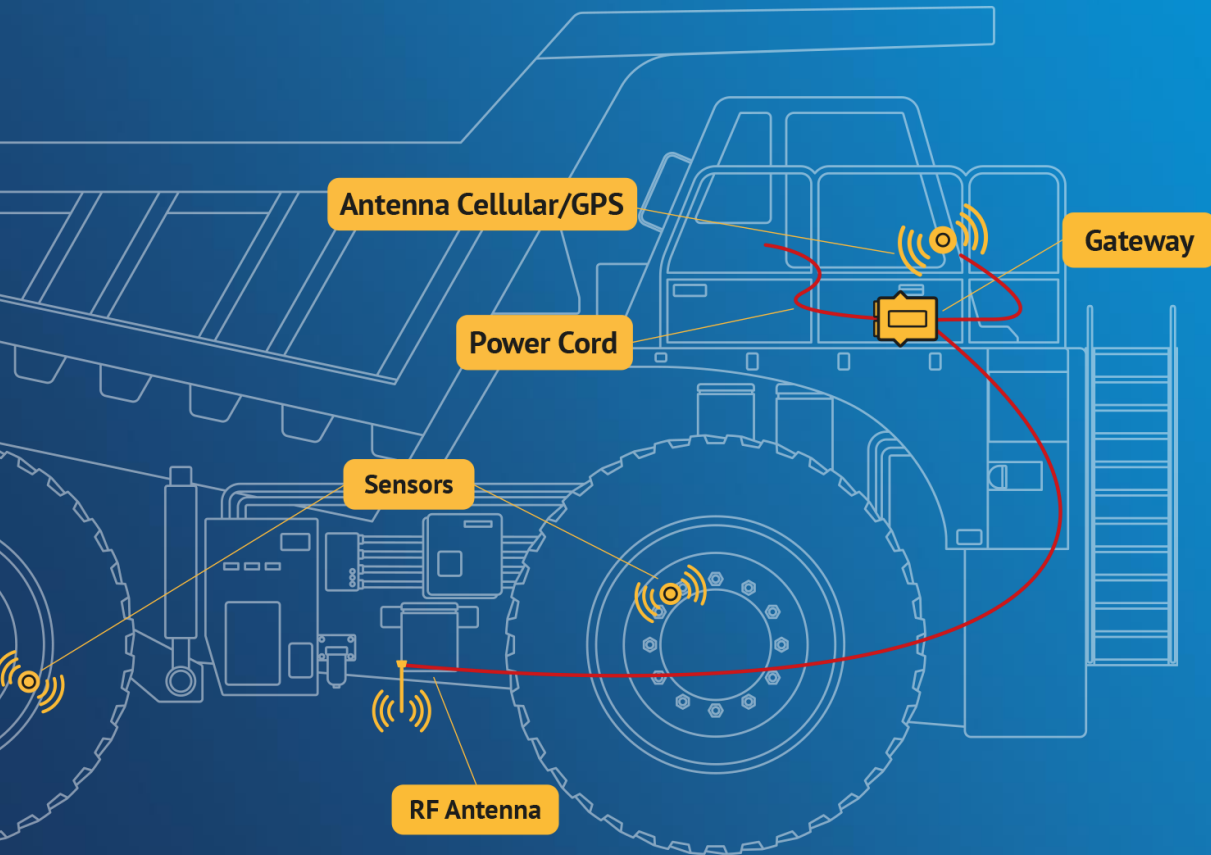
Reports

- Tyre reports
- Mileage
- Hours
- Journeys
- Problems



Easy to Install.

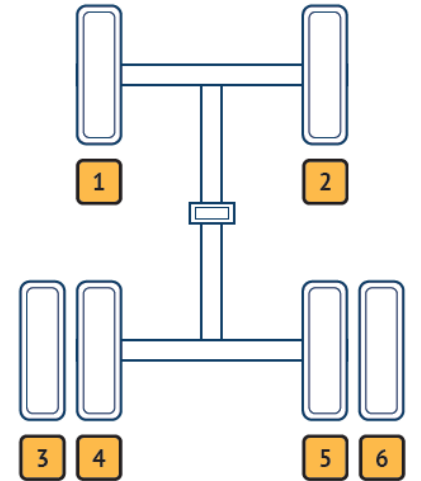
30 – 60 minutes depending on the complexity of the vehicle or machine



- Easy Install – No need to remove tyres
- Pre-programmed for your vehicle(s)
- Simple Set-up

Rigid Dump Truck MAG – TPMS-RDT

1x	MAG-Gateway	Magna Gateway
1x	MAG-200PD	Power Cable
1x	MAG-333AN	GPS/Cellular Antenna
1x	MAG-850K	RF cable 35" plus Whip Antenna
6x	MAG-920	T-Valve large
6x	MAG-TEHL-2	Large Bore Sensor

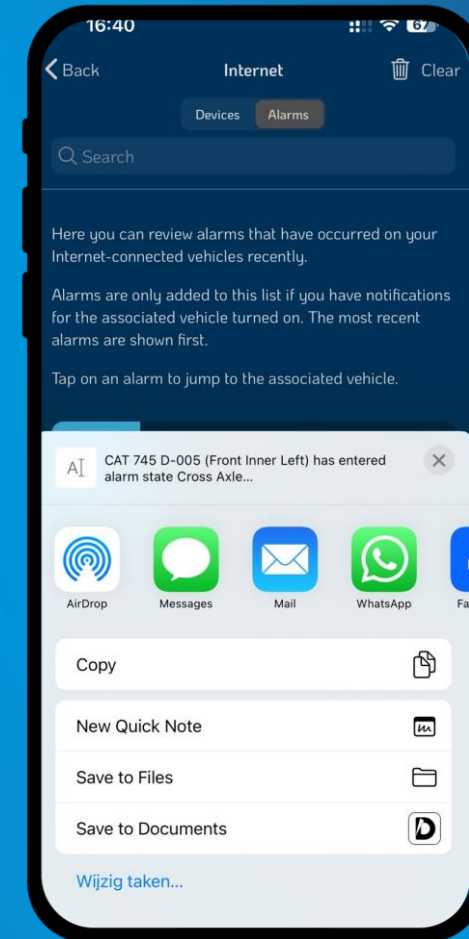


Data Insight – Web and mobile Application.



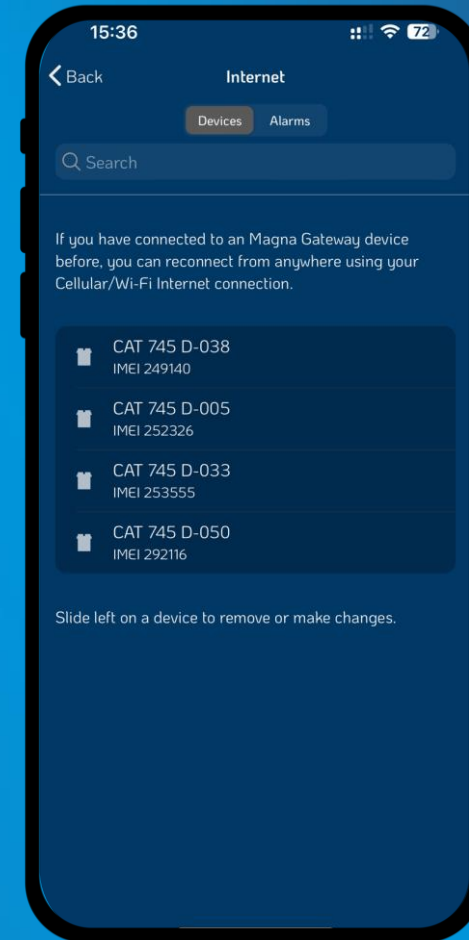
Data Insight – Alerts/Actions.

- Mobile detailed alerts via notification Centre on smart phone
- Email with full interactive links to web application
- Easy to create a follow-on action
- Monitoring and sharing alerts ‘on-the-go’



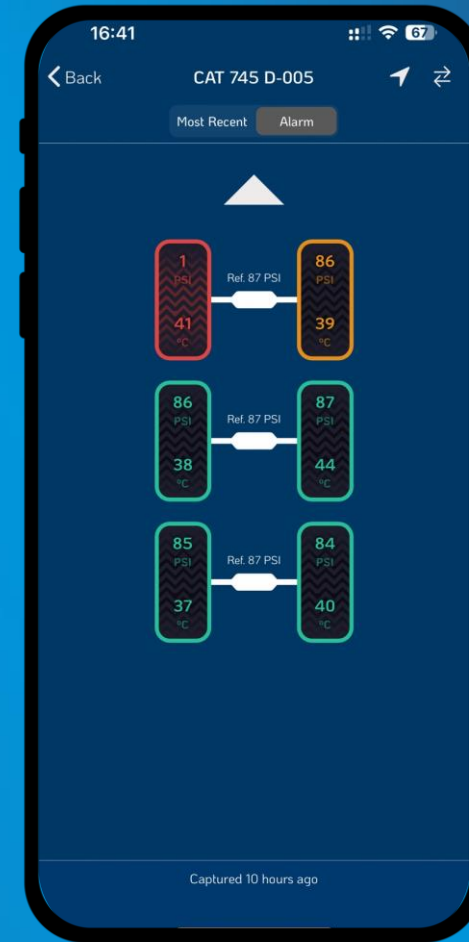
Data Insight – Alerts/Actions.

- Mobile detailed alerts via notification Centre on smart phone
- Email with full interactive links to web application
- Easy to create a follow-on action
- Monitoring and sharing alerts ‘on-the-go’

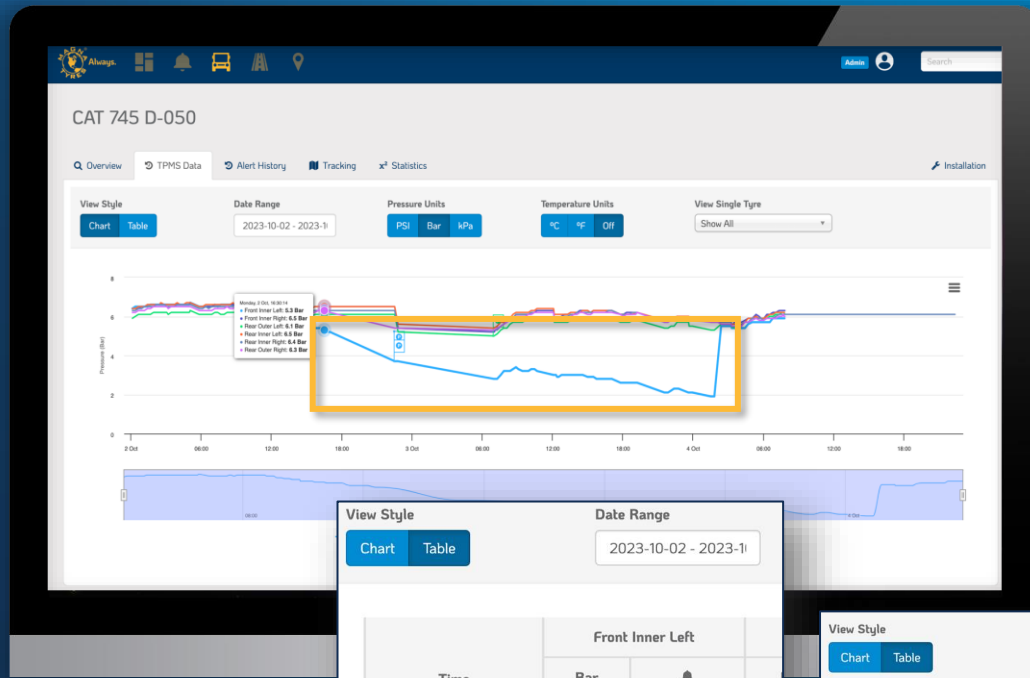


Data Insight – Alerts/Actions.

- Mobile detailed alerts via notification Centre on smart phone
- Email with full interactive links to web application
- Easy to create a follow-on action
- Monitoring and sharing alerts ‘on-the-go’



Magna TPMS – CASE.



Time	Front Inner Left	
	Bar	🔔
Oct-02 16:14:06 🟢	5.4	
Oct-02 16:30:14 🟢	5.3	🔴
Oct-02 16:47:58 🟢	5.2	🔴 Cross Axle

Time	Front Inner Left		Bar
	Bar	🔔	
Oct-04 01:47:46 🟡	1.9	🔴	5.7
Oct-04 01:48:06 🟡	0.0	🔴	5.7
Oct-04 02:04:54 🟡	0.0	🔴 ⚠️	5.7
Oct-04 02:22:34 🟡	5.5		5.7

First cross-axle alert received at 16:30 October 2nd

Tyre reinflated/replaced? Around 10:00 on October 4th

- Lack of communication?
- Lack of action?
- Audit trail for warranty









Much more than TPMS.

- Tyre Pressures even when vehicle unpowered
- Tracking even when vehicle unpowered
- Know if the vehicle has moved
- Security in accordance with UK Standards
- Engine characteristics and fault codes
- Usage statistics to support service contracts



Multiple Sensor Inputs
OEM Customisation



-  • TPMS
-  • Battery Backed
-  • Tracking
-  • Security
-  • Axle Load
-  • Engine Monitoring
-  • Wheel loss
-  • Hub/Brake Temp



Available TPMS kits.

OTR Applications

Application	Valve Bore Sensor	Wheel Positions
Articulated Dump Truck	Large	6
Rigid Dump Truck	Large	6
Wheel Loader	Large	4

- All kits directly available from stock
- All other applications on request.

Port/Material Handling

Application	Valve Bore Sensor	Wheel Positions
Reachstacker	Large	6
Forklift / ECH	Small	6
Straddle Carrier	Large	8
Terminal Trailer	Small	6
Terminal Trailer	Small	8
RTG	Large	8
Mobile Excavator	Small	8



Summary.

- It works! – “Our biggest competition is failed systems”
- Any machine, any tyre, any manufacturer
- Easy to install, easy to use at an affordable price
- Competitive “cost of ownership” – hardware, subscription, install, maintenance
- ROI less than 12 months





TPMS