



Tyre Monitoring for Buses & Coaches

Bus & truck fires are a major concern, and the Bus industry is turning to technology to help mitigate the risk. A cost-effective and reliable Tyre Pressure & Temperature Monitoring (TMSystem) solution is the key to preventing bus fires.

LSM Technologies

An Australian company, LSM Technologies have been supplying TMS to the transport industry for over a decade in the form of our TyreGuard® TMSystem technology. Not only does this technology provide on-board monitoring for operators but also remote monitoring via our online FSM Fleet Safety Manager® telemetry system, which allows fast and accurate tyre management information, alerting and reporting back to base.

It is accepted that overheating of brakes, failed wheel bearings and low tyre pressures are a significant cause of bus fires / thermal events throughout Australia.

This is validated by the OTSI, BIC (Bus Industry Confederation) Fire Bus Advisory Reports and even by NHVR (National Heavy Vehicle Regulator) Heavy Vehicle Fires Round Table, NTI (National Transport Insurance) and the latest report / guidelines by Dr Peter Hart of ARTSA-I commissioned by the National Transport Safety Initiative for Trucks and Trailers

The 2020 Bus Safety Report by the NSW Office of Transport Safety Investigations (OTSI) depicts that since the introduction of the TMSystem back in 2016 the rate of 'Thermal Events' has increased, but the thermal events turning into 'Fires' from the tyres / wheel well has decreased from 37 x annum in 2016 to now zero in 2020.

What does this mean?

LSM TyreGuard® TMSystems technology cannot stop wheel well thermal events, but it can stop thermal events from turning your \$1 million dollar asset into a fire ball. Patron safety is of the utmost importance, finding out ahead of time that your wheel bearing has seized / brakes have locked and is about to flare up could save lives. The last thing any bus company needs, is a front page spread of their bus alight at a busy intersection, not all publicity is good publicity.

With LSM TyreGuard® TMSystems technology on board your driver will have instant feedback if there is a problem, they will receive a visual and audible alarm. Seconds matter when it comes to thermal events, TMSystems gives you a fighting chance to catch the incident before it becomes something more sinister.

Features & Benefits

Apart from mitigating fire, a quality TMS package can increase tyre life, reduce maintenance schedules, saving labour and costs. LSM Technologies' TyreGuard® TMSystems is robust, it features an In-Cabin Monitor that provides real-time updates on tyre pressures as well as alerts for temperature, can monitor up to 36 tyres at once and is easily programmed. TMS can make your tyre pressure checks at start-up a breeze, offering a level of confidence and efficiency.

Our external sensors (internal also available) are recognised as industry best; fit for purpose, fully potted with a battery life of up to 4 years offering a reliability others can't match. External sensors are

designed and manufactured specifically for the Bus, Transport and Mining industries. External sensors have become the standard choice as they offer a level of flexibility that internal sensors cannot. Internal sensors require re-programming whenever there is a tyre rotation completed, external sensors can be easily / quickly removed, original position marked and fit to the original position after the rotation has been completed.

LSM TyreGuard® TMSystem packages are not a recreational or domestic product, it has undergone rigorous testing including:

- Tested and certified to "SAE J1455 Recommended Environmental Practices for Electronic Equipment Design in Heavy-Duty Vehicle Applications"
- Tested and certified to "ISO16750 Road vehicles- Environmental conditions and testing for electrical and electronic equipment".
- Tested and certified to "SAE J2848 (Tire Pressure Systems – Management (CTIS) Type for Medium and Heavy-Duty Highway Vehicles".
- The manufacturer is also: ISO9001:2015 and ISO14001:2015 Certified.

Need more information?

If you would like more information regarding our TyreGuard® TMSystems technology packages to suit your fleet, you can call us on (07) 3725 8100 or head to our new website at www.lsm.com.au.