

# LSM TyreGuard® HDJ360

## INTEGRATION WITH ADVANCED TYRE MONITORING SYSTEMS

Real time tyre temperature and  
pressure reporting and alerts for  
transit bus and coach fleets

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# IMPROVE SAFETY, EFFICIENCY AND PRODUCTIVITY

A flat tyre can quickly disrupt your schedule, lead to expensive repairs, and is potentially dangerous.

LSM TyreGuard® integrates into the Doran HDJ360 TMS system and continuously monitors tyre pressure and temperature data transmitted from wireless, valve-stem mounted tyre sensors. The tyre status is displayed on the LSM TyreGuard® HDJ360 monitor in the driver's cab.

Multiple built-in alert settings provide warnings to protect against FastLeak™ rapid deflation events, prolonged driving on underinflated tyres and excessive heat conditions that can cause wheel well fires.

## LSM TyreGuard® HDJ360 can help you:

- Maximise tyre service life.
- Increase safety for drivers and passengers.
- Avoid wheel well fires (due to locked brakes, bearings or incorrect tyre pressurisation).
- Optimise fuel efficiency.
- Enhance vehicle braking and traction control.
- Labour savings in checking and recording tyre pressures.
- Avoid sudden catastrophic tyre failure (e.g. steers).
- Enhance productivity and scheduling.

LSM TyreGuard® HDJ360 has been extensively tested and certified to SAE J2848 and SAE J1455 Standards Tyre Pressure Monitoring Systems - Medium and Heavy-Duty Highway Vehicles.

## BUILT-IN TOUGHNESS

- The LSM TyreGuard® HDJ360 system was designed from the outset for the extremes of the road and changing weather conditions.
- The sensor electronics are secured with a potting material to provide component stability, extreme temperature resistance and airtight construction.
- The long life Lithium-ion battery in the sensors provides an estimated life of up to five years.
- Light weight with no requirement to rebalance wheels.
- Provides the highest level of accuracy, durability, reliability and protection for your pneumatic tyres.

## ALERTS

When pressure or temperature limits are incorrect, the system will signal an audible and visual alarm, alerting the driver to the problem and its location on the vehicle.

### Level I low pressure warning:

Issued when a 12.5% drop from the programmed baseline tyre pressure occurs.

### Level II low pressure warning:

Occurs when a 25% drop from the programmed baseline tyre pressure takes place.

### FastLeak™ warning:

Triggered when the pressure drops by 19.3 Kpa in less than 12 seconds, regardless of the baseline tyre pressure.

### High pressure alarm:

This can be set to provide warnings with a 25% increase over the programmed baseline tyre pressure

### High temperature warning:

Triggers a "HOT" wheel over temperature alert >80°C.

### Lost signal alarm:

Indicates a temporary interruption of RF signal reception, or if the condition persists, the tyre sensor is missing or the battery depleted, indicating replacement.



SYSTEM ON AND MONITORING



FASTLEAK™ ALARM



HIGH TEMPERATURE ALERT

## RAPID ROI

Tyre life is increased, tyre related repair and maintenance costs decrease when optimum tyre pressures are maintained.

- Eliminates potential errors, time and labour costs to manually check and record tyre pressures.
- Up to 36 tyres (sensors) can be accurately checked and monitored with the LSM TyreGuard® HDJ360 TMSystem.
- Real-time tyre pressure and temperature alerts help to prevent catastrophic tyre failures, which reduces expensive road repair calls, minimises down-time and maximises productivity.
- Enhances safety (fires, catastrophic failures, braking, traction, control, etc.).



More LSM  
TyreGuard®  
HDJ360  
information is  
available on  
our website:



## COMPONENTS



### MONITOR/DISPLAY

- Power Requirement: 12 / 24 Vdc
- Current Draw at (eg at 12 Vdc): Normal Mode: <77 mA
- Alarm and Backlight: <115 mA
- Sleep Mode: <70 mA
- Tyre Positions: 16 x tyre positions mapped for the truck and 20 x single trailer / tow vehicle
- Dimensions: W 144 mm x L 55 mm x D 29 mm
- Weight: 153 g



### SIGNAL BOOSTER

- Modulations Mode: FSK
- Operating Frequency: 434.10 Mhz
- Input Voltage Range: 12/ 24 Vdc



### WIRELESS TYRE PRESSURE SENSORS

- Pressure Range: 69 to 1300 kpa (10 to 188 psi)
- Accuracy: +/- 13.8 kpa (2 psi) over the pressure range
- Operating Frequency: 434.10 Mhz
- Operating Temperature Range: -40° C to +125° C
- Battery: Lithium-ion, internal, non-rechargeable & non-replaceable
- Low Voltage Shutdown: 2.2 V
- Dimensions: W 29.53 x H 33.1 mm
- Weight: 23.5 g

**SPECIAL NOTE:** Both internal and external mounted sensors are available.



### REMOTE ANTENNA KIT

- Cable: coaxial
- Length: 3 m or 10.5 m

## ALSO AVAILABLE

### LSM TyreGuard® SMARTLINK™ TABLET

- Dimensions: W 286 mm x H 191 mm x D 38 mm
- Screen Size: 203 mm
- Weight: 1.25 kg
- Operating System: Android
- Storage Capacity: 3.5 GB
- USB Cable Included



# LSM FSM<sup>®</sup> TELEMATICS AND / OR LSM SENTINEL<sup>®</sup> (pat.pend.) VSS INTEGRATION



## LSM FSM<sup>®</sup> FLEET SAFETY (TRACKING) MANAGER

LSM TyreGuard<sup>®</sup> Tyre Monitoring Systems works hand in hand with the LSM FSM<sup>®</sup> Fleet Safety (Tracking) Manager Telematics System to provide real time data and alerts back to base, ensuring a proactive approach to enhance workplace (and public) OH&S, equipment damage control, maintenance cost-downs and productivity.

LSM FSM<sup>®</sup> is an in-house world first Australian designed and developed SaaS software that allows users to be provided with more than just fleet tracking, but also integration of LSM product technologies, that can be accessed via any internet connected PC or mobile device. LSM FSM<sup>®</sup> Fleet Safety (Tracking) Manager is an intuitive web browser interface with single-click access to fleet dashboards, customise reports, compliance tools as well as real-time, user-defined alerts.

It is scalable from a single vehicle or asset up to thousands, providing immediate alerts as required via SMS and email, anywhere in the world, 24/7.

Australian designed and made for Australian industry.



FSM<sup>®</sup> Fleet Safety  
Tracking Manager

## LSM SENTINEL<sup>®</sup> (pat. pend.) VSS (VEHICLE SAFETY SYSTEM INTEGRATION)

LSM TyreGuard<sup>®</sup> Tyre Monitoring Systems also integrate into the LSM Sentinel<sup>®</sup> (pat. pend.) VSS Vehicle Safety System.

This is especially advantageous where most vehicle cabins have limited "real estate," avoiding a clutter of monitors or displays. The LSM Sentinel<sup>®</sup> in-cabin display provides driver / operator alerts for *all* LSM connected OH&S mitigation technologies, all on a single monitor.

Australian designed and made for Australian industry.



LSM Sentinel<sup>®</sup> (pat. pend.)  
VSS Vehicle Safety System

### HOW TO ENQUIRE

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