



Tyres are a major cost centre on any mine site



## How do you engage a maximum return on your tyre investment?

TyreSafe Australia has a tyre pressure monitoring system to constantly check your tyres inflation pressures providing electronic alerts if a tyre pressure falls, or if the tyre is getting too hot. Improve the return on your substantial tyre investment at little cost!



IF THEY'RE  
NOT TURNING  
THEY'RE NOT  
EARNING

Mining is about  
one thing

Moving dirt as  
efficiently as  
possible

Increased productivity and  
enhanced safety is the aim of  
every mining operation.

[www.tyresafe.com.au](http://www.tyresafe.com.au)

# the PressurePro advantage

PressurePro Tyre Pressure Monitoring Systems (TPMS) offer many advantages:

- improved safety and dynamic handling, better traction
- lower fuel consumption as a result of lower rolling resistance
- increased availability, no stopping for pressure checks
- improved tyre performance, increased life, reduced downtime
- identifies tyre problems before they become a problem during operations
- pro-active maintenance rather than reactive

The PressurePro system:

- is simple to fit, program and maintain.
- is fitted to the end of the valve stem or specific SensorSpud® dual headed wheel spuds
- weighs 17 grams, usually less than the tyre is out of balance
- checks the pressure every 7 seconds
- has alerts @ 12.5% & 25% under set pressure as well as 24% (adjustable) for over pressure
- uses audio visual alerts but can be enabled to provide sms email or other electronic alerts

**PressurePro**  
Tyre Pressure Monitoring



increased life  
reduced downtime

# control risk and reduce loss

## Why is the first low pressure alert 12.5% below the correct cold pressure?

A tyre running at 10% below its specified pressure:

- will wear at a 10% faster rate
- the rolling resistance increases so fuel consumption rises
- contact pressure is reduced 10%
- traction is affected increasing stopping distances

## Safety is compromised!

At 20% under set pressure the tyre will wear 25% faster than at the correct pressure, the danger of a tyre failure increases exponentially, the risk of a safety related incident increases.

The monitor in the driver's compartment receives and collates the signals from the PressurePro sensors fitted to the vehicle - up to 160 can be monitored.

The pressure from each tyre is checked every 7 seconds; a major change in pressure triggers the monitor to life displaying the pressure. The alert can be acknowledged a reminder beep and visual alert remains active. If the tyres pressure continues to drop, a further alarm at 25% below set pressure triggers the audio visual alarms in a more urgent manner.

**This calls for immediate action to maintain safe operation of the vehicle.**



# remote monitoring

PressurePro TPMS integrates with mine dispatch systems sending information about the tyres directly to the dispatch office so they can make informed decisions and increase productivity by scheduling.

Tyre pressures are an indication of tyre work, known as TKPH. Tyre pressures confirm operational TKPH settings allowing the supervisors to better utilise the equipment producing more tonnes with increased safety.

A tyre pressure check can take between 15 – 25 minutes plus run down and start up time. With PressurePro you don't need to stop the truck, an internal data logger provides records for up to 90 days on a 24/7 operation, easily downloaded with free software.

**Hot tyres are identified before they get to a hazardous level allowing proactive management.**



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- PressurePro has special SensorSpuds© which allow the sensor to stay on the wheel during tyre changes, no reprogramming no special tools.
- The PressurePro sensors are compatible with most anti corrosion fluids. Glycol fluids do not present a problem even in the long term.
- Problems with leaking wheels/rims are identified before the tyres are lost but most importantly so that safety measures can be implemented to prevent a catastrophic failure of rim parts.
- With the cost of OTR tyres escalating every step that can extend tyre life is valuable. With ultra class tyres at \$65k a piece (contract price) a PressurePro system represents less than 0.5% of a single set of tyres.
- For the life of the sensors (3 years) the investment is 0.0005% of the tyre cost at 2 sets of tyres a year.
- Each system is customised to meet the exact requirements of your operations, no generic fits all systems. If needed, a TyreSafe technician can fit the system and instruct your drivers on the ways to extract the maximum safety from the system.
- Each unit carries a no question 12 month warranty, no questions just replaced to maintain safety and production. The sensors have an expected life of 3+ years.

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