



# AUTOMATION

 telemation

**IMPROVING EFFICIENCY,  
PRODUCTIVITY & SAFETY  
THROUGH **AUTOMATION****



# COMPANY VISION

**Automation is at the heart of any modern business committed to improving efficiency, productivity, safety and reducing downtime and associated costs.**

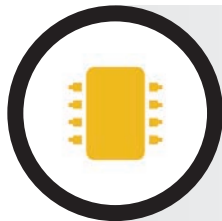
At Telemation, a division of Tele Radio Australia, we pride ourselves on developing efficient, adaptable and customised automated solutions that can grow as our client's businesses change.

Our reputation as industrial remote-control experts is supported by 60 years of experience and means we are well-placed to support the automation needs of mobile equipment operators.

We are particularly proud of our key strengths in:



**INNOVATION** - We are committed to being at the forefront of innovation, always looking for tailored solutions that provide greater control in client applications and improve efficiencies for our clients and their operations.



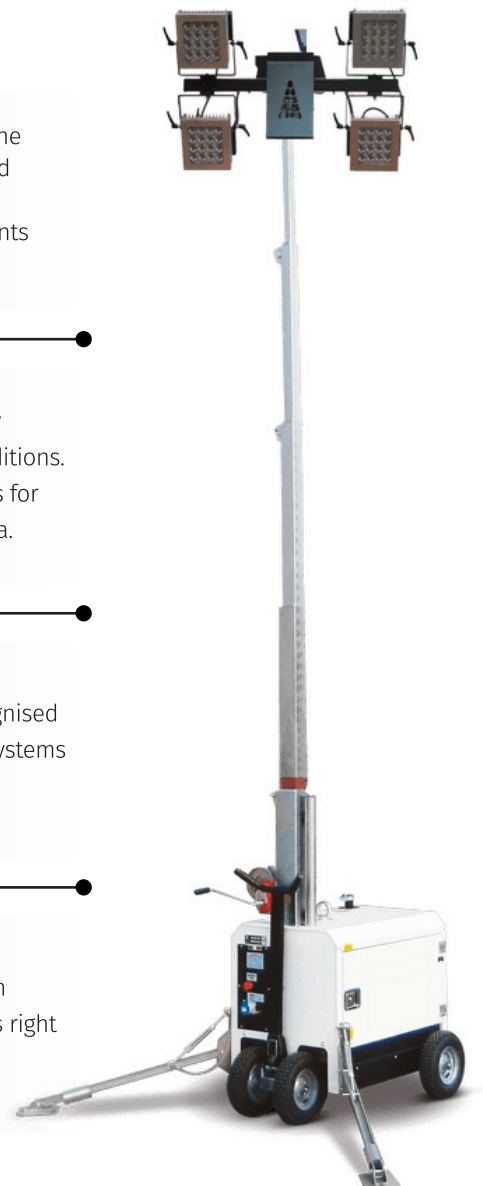
**TECHNOLOGY** - Our technology is incredibly adaptable and has been designed for harsh conditions. This means we can develop customised solutions for our clients across almost any industry in Australia.



**PRODUCTS** - We only use internationally recognised products which means our clients benefit from systems and solutions proven to stand the test of time.



**SERVICES** - We work with all industries and can design and engineer a customised solution that's right for your business.



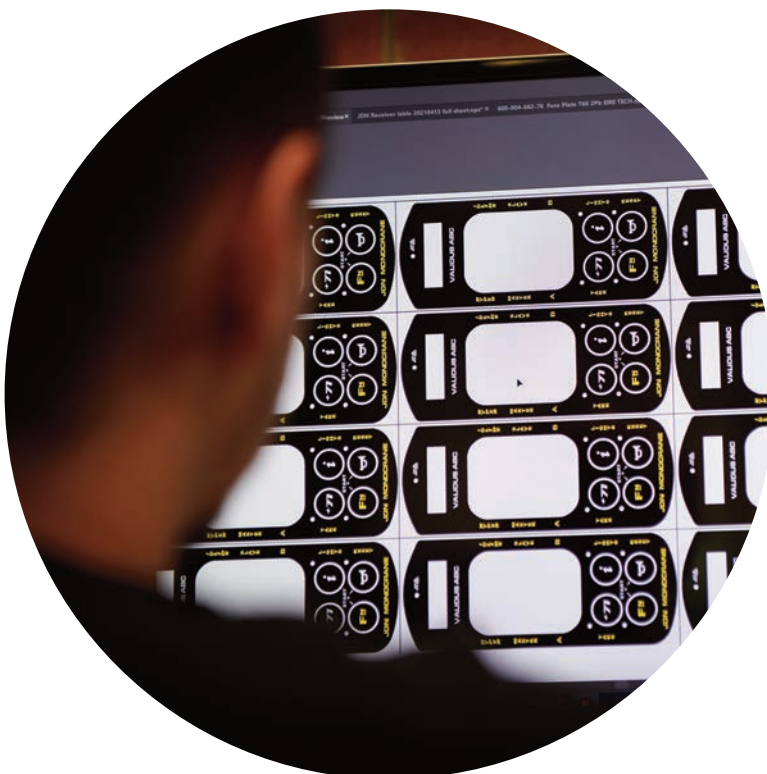


# WHAT SETS US **APART?**

**With more than 60 years of experience behind us, Tele Radio is the leader in providing customised automation and industrial remote control systems for a range of industries.**

We are unique because of:

- Our ability to develop original solutions completely in-house - this sets us apart from our competitors.
- Our extensive industry knowledge and passion for finding innovative ways to design and implement customised solutions for our clients.
- Our experienced team who have worked with some of Australia's largest companies to provide innovative remote control and automation solutions.
- Our products which have been designed and tested for the Australian conditions. This means we are able to tailor our support for the needs of companies across Australia.
- Our commitment to working collaboratively with our clients and offering 24/7 local support from our Perth office.
- The quality, internationally tested parts that each automated solution that we design and build, use.



# OUR CAPABILITIES

## OVERVIEW

**The role of automation in improving business efficiencies, increasing productivity, improving safety, product quality and reducing lead times is increasingly becoming integral to a business's ability to future-proof.**

At Tele Radio Australia, we integrate machine learning and artificial intelligence into our systems. By doing this, we have been able to support businesses to:

- ➔ Monitor onsite equipment and immediately access maintenance history, repair reports and other data;
- ➔ Monitor fuel consumption which allows businesses to claim fuel tax rebates or just to limit costs;
- ➔ Prevent operators from damaging equipment and improve on-site safety; and
- ➔ Customise branding on remotes to include logos, colours and symbols for additional protection, safety and recognisability.

Our solutions mean our clients can take control or do fault-finding of their equipment without having to go to the site – an invaluable and cost-effective benefit in our current climate.





## CAPABILITIES

# FINDING SOLUTIONS TO COMPLEX PROBLEMS

Tele Radio's fully customisable drill rig operating system has the potential to optimise drilling operations, improve safety, reduce environmental impact and transform the way our clients work.

Our advanced systems can support the full-autonomous operation of the drilling sequence and the semi-autonomous loading and unloading of rods. This results in increased productivity (as tasks are completed faster and from a safer distance), and reduced number of staff required on site (resulting in lower costs and increased safety).

The cruise control function and ability to automatically adjust drilling parameters improves and optimises drilling operation.

The "live monitoring" capability offers full electrical diagnostics and the ability to monitor engine parameters, including pre-scheduled maintenance, and troubleshoot in real time. This function offers improved diagnostics and fault-finding of remote control, valves, outputs, sensors and CANOPEN devices. This reduces downtime due to failure, extends the operation life and allows for accurate reporting and logging.

The drill rig operating system can also monitor fuel consumption, fuel optimisation, oil and fuel spillage and this helps to evaluate (and minimise) the environmental impact of operations.

A number of safety improvements are offered including interlocks (which will prevent machine damage in case of operator error), and timed-bypass for cage interlock (necessary for inspection).



## CAPABILITIES

# THE POSSIBILITIES ARE ENDLESS

**Automation capabilities and applications are rapidly proving critical to business success.**

To date, we have supported our clients to automate processes and control their equipment using a variety of technology – from basic push-button remotes to Programmable Logic Controllers (PLCs) and Human Machine Interfaces (HMIs) – but we won't stop there.

From Intellectual Property (IP) development through to manufacturing the final product, our end-to-end, tailored solutions are all done completely in-house. This saves our clients time and money and streamlines our services, so we are always on time and on budget.

We make it easy to monitor and store assets by combining them into one, fully customised Cloud-based management service. Here, clients can check fuel levels, service intervals, GPS location, over speeding or sudden braking from anywhere in the world. They can also report on everything from fuel consumption to run hours, and even set and control reminders for drivers to plan and conduct equipment maintenance.

The future is here – is your business ready?

**TELE RADIO CAN HELP.**





## CAPABILITIES

# CUSTOMISED FOILS OFFER A RANGE OF BENEFITS

Our ability to 3D custom-print branded interfaces and controls means we can customise every transmitter and receiver with a design of your choice. This includes choice of colours, symbols, fonts and/or images.

Custom foils offer additional protection, safety and branding.

### PROTECTION

The foils are made of high-quality industrial material, are available in three thicknesses, can withstand intensive use and are resistant to discoloration and liquids. This helps to protect the transmitter and reduce discoloration.

### SAFETY

Custom foils can also improve safety by featuring safety reminders, symbols and messaging for the user to see every time they use the remote. Also, by using the thickest foil, the buttons fall deeper into their casing (or are covered completely) and cannot be pressed by accident.

### BRANDING

Including your logo and colours etc ensures your devices stand out on site. This means you'll never lose a transmitter or receiver and it also increases awareness of your brand. Our custom foils are available for application on all Tele Radio devices.





## CAPABILITIES

# WIRELESS INDUSTRIAL REMOTE CONTROLS

**Tele Radio products include some of the most advanced wireless industrial remote controls for hydraulic, mobile and industrial applications.**

Combining the use of smart software, special protocols, quality components, robust and ergonomically designed housings, our systems are used by companies looking for reliable and secure wireless controllers.

We can custom build remote controls for a specific purpose or help you find the right product for your needs.

Tele Radio remotes are reliable, robust and safe. They are independently certified by notified bodies and comply with the highest safety standards.

Benefits of our remote controls:

- Comfortable & convenient – our customised solutions contribute to a more ergonomic workspace and offer maximum freedom of movement
- Robust & reliable – we guarantee a secure and high-quality connection between the transmitter and receiver
- Increased safety – we offer double safety relays, a feedback function, various start up and user protections, and the certainty that the emergency stop is at your fingertips.





## CASE STUDY **LIGHT TOWERS**

**From major manufacturers to systems integrator and hire companies, Tele Radio Australia has a range of automated control solutions available to suit the needs of customers with light towers.**

Our vertical mast and compact light tower control systems are innovative and user-friendly to simplify operation, and our control system software features configurable alarms and alerts for preventative maintenance and safer operation.

The system's hardware allows additional sensors to be installed and used for system diagnostics, as a safety feature or to prevent theft and damage.

For example, remote features can be interlocked to prevent potential damage by inexperienced operators. This is essential for hire firms looking to safeguard their investment.

Low engine oil or fuel alerts can be provided to site and fleet managers while an angular tilt sensor can trigger an alert when the tower has or is tipping too far. This improves safety and reduces risk.

An inclinometer can be installed on the tower to provide an early warning of high winds, allowing enough time for a remote command to safely retract.



# CASE STUDY

## WATER TRUCKS

**Hydraset (developed by Telemation) is an advanced and user-friendly automation and control system purposely built for water trucks.**

Its remote control and Human Machine Interface systems are designed to simplify operation and provide the operator with direct access and control over functions such as:

- ➔ Protecting the pump & Power Take-Off (PTO)
- ➔ Operation of the water cannon & hose reels
- ➔ Control of the individual sprayer and dribble bar
- ➔ Mode selection, highway mode/site mode (allowed axle pressure)
- ➔ System status & protection - water & oil levels, pressure, speed etc
- ➔ Current location and route information (telematics)
- ➔ Data logging & Cloud upload (telemetry) or locally stored information

The control system software features configurable interlocks, alarms and alerts for preventative maintenance and safer operation.

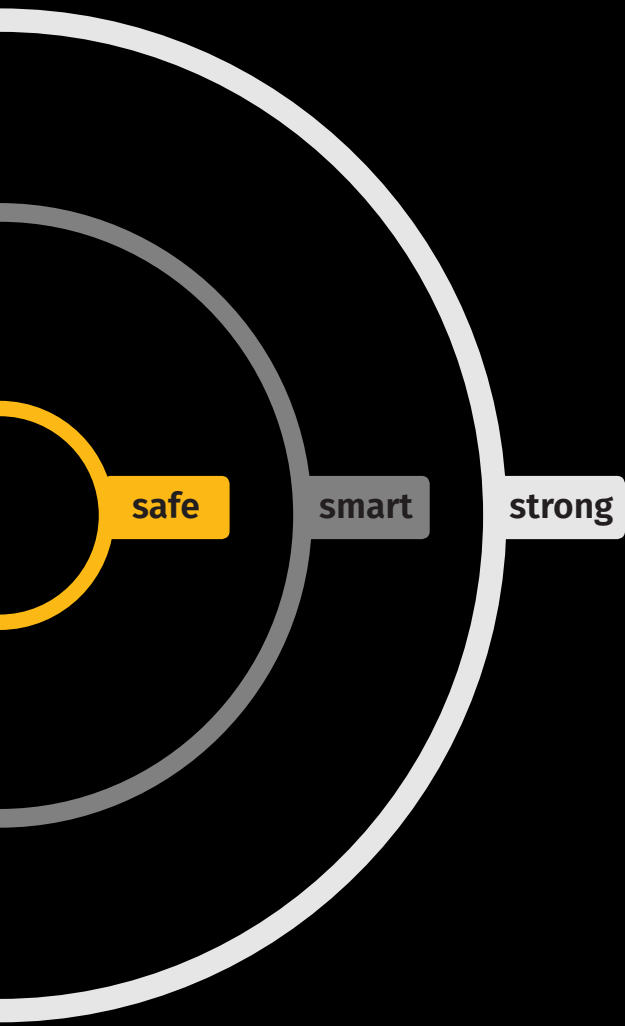
Sensors can be plugged into the system and used as a system diagnostic, safety feature, or for damage prevention control.

For example, the system is programmed so the truck's water tanks can not be over-filled and their speed can also be controlled to prevent damage.



Features include real-time GPS location and remote monitoring of system diagnostics including engine RPM, oil and water level. This means, when it's time, the driver is directed to the nearest re-filling station using the GPS.





# telemation

Tele Radio Australia, the leaders in automation and industrial remote control solutions, provide customised solutions to a range of industries offering cutting edge technology.

**Contact us today to discuss how we can design a tailored automated solution for your operation.**

**SAFE • SMART • STRONG**

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**For more information about Telemation and our unique product range, visit [telemation.com.au](http://telemation.com.au)**

 **tele radio**<sup>®</sup>  
wireless solutions