

Ensure safe passengers and focused drivers with

MAX·SAFE✓ Occupant Safety Solutions

The Danger

Bus accidents can cause serious injuries and fatalities, but it is proven that when seatbelts are worn, injuries are minimised, and lives are saved.

However, when transporting the public, or a commercial workforce on or to site, it can be difficult for the driver to check on passengers, and ensure that everyone is safely buckled in. At night this is doubly hard. The driver needs to focus on the operation of the vehicle, and on driving from Location A to B.

Because buses transport multiple people, if there is an accident and people are not buckled in, there is potential for many people to be injured or killed – even when there is no other vehicle involved.

The Solution

The MAX-SAFE Seatbelt Warning System™ constantly monitors passengers to ensure that they are seated securely. The system gives the driver configurable visual and audible alerts to notify them only when there is a problem.

This solution:

- Activates when the vehicle is in motion
- Has inbuilt logic to only monitor occupied seats
- Detects the exact seat location of unsafe passengers
- Can notify the driver and passenger immediately of risk
- Gives driver confidence that passengers are safely buckled.
- Helps manage the issue of unbuckled passengers

Benefits

- Helping to minimize injuries and save lives.
- Less distractions for the driver.
- Both visual and audible warning signal options provided for both the driver and passengers.
- Robust commercial-grade solution for top performance.
- Advanced logic with self-testing algorithms ensuring system accuracy.
- Redundancy built-in for reliability.
- A safer journey with peace of mind for the operator.



“The MAX-SAFE Seatbelt Warning System optimises the safety of our clients’ most valuable asset – their employees – and Kinetics employees.”

Joe Gould

Kinetic Specialised Resources



How it works

The **MAX-SAFE Seatbelt Warning System™** helps to ensure all passengers are safely secured, allowing drivers to focus on the road without compromising passenger safety.

The system monitors the state of the seat and buckle via an intelligent node, which is connected to the driver’s interface through an electrical harness. The interface has advanced logic and inbuilt circuit redundancy measures for accuracy. Audible and visual options are also available for both the passenger and driver to ensure effective alerting. The solution is designed to be either fitted at build stage, or retrofitted to bus fleets of all industries, ages, or sizes.

1

Check

The Seat Monitoring System is designed to check if there are any unbuckled occupants, with an easy-to-read display that makes it quick to assess in any situation.

The system has been developed with advanced logic and inbuilt circuit redundancy measures to ensure accuracy.

2

Notify

In an instant, a driver has the information at hand to know how many passengers aren’t buckled in, with seat location of any unsafe occupants provided.

3

Action

Ensuring safety at the forefront, a driver is then equipped with details on what occupants are not buckled in and can take action to avoid injury or fatality in the event of an accident.

The **MAX-SAFE Seatbelt Warning System™** is part of the MAX-SAFE Safety Ecosystem designed to safeguard people, vehicles and equipment.

Highlighting the Issue: Bus Accident Statistics Involving Occupants

To underscore the critical need for seatbelt safety systems, here are some key statistics on heavy vehicle incidents involving occupants in Australia and New Zealand over the past 10+ years:

The 10-year average from 2010 to 2020 has seen **22 people a year die in bus crashes** – nearly 2 a month.

In June 2023, **10 people were killed and 25 hospitalised after a single bus accident** in the Hunter Valley (no other vehicle involved), making this Australia's worst road accident since 1994. In 1989, 56 people were killed in two major bus accidents in NSW.

Accidents related to **mining buses are also a concern**. In 2018, a minibus rollover injured contractors travelling from Cook Colliery to BMA Blackwater in Queensland.

In 2019, **five Chinese tourists were killed** in a bus crash near Rotorua. And in 2020, **20 Chinese tourists were injured and two airlifted to hospital**, after a bus crash near Queenstown.



“The investment in the MAX-SAFE seatbelt monitoring system plays a key role in our zero-harm approach because – importantly – it ensures drivers can remain fully focused on driving safely, knowing passengers are properly buckled up. Safe transport is reliable transport – a key requirement of our transport contracts.”

Joe Gould
Kinetic Specialised Resources

Proven Solution

The MAX-SAFE Seatbelt Warning System™ is an advanced occupant safety solution designed to enhance passenger protection in buses and coaches. This system ensures that all occupants are properly secured by monitoring seatbelt usage and providing real-time alerts to both drivers and passengers. It protects over 6 million passenger transfers annually in Australia.



"The MAX-SAFE Seatbelt Warning System provides drivers with the confidence that passengers are buckled up prior to departing any stop, with the certainty that all occupants are legally compliant to company transport policies. In this way, there is less mucking about for drivers, leading to smoother, faster, safer departures."

Joe Gould
Kinetic Specialised Resources



"With SGENCO-MAX we have confidence that the high-quality components, manufactured specifically for the MAX-SAFE Seatbelt Warning System, are highly accurate and suitable for Australia's tough conditions and the range of vehicle types in use."

Joe Gould
Kinetic Specialised Resources



+61 7 3715 3715



info@sgesco.com.au



www.sgesco.com.au



17 Rodwell St, Archerfield Q 4108
PO Box 998, Archerfield Q 4108



Monday to Friday, 7.30am to 4.30pm



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MAX-SAFE OCCUPANT SAFETY SOLUTIONS

ENSURING SAFE PASSENGERS AND FOCUSED DRIVERS WHILE TRANSPORTING

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