



Controlling Speed = Increasing Safety

Intelligent Speed Limiting and Monitoring

Speed is a major cause of death and injury on roads throughout the world. Speed costs lives, increases fuel consumption and increases vehicle maintenance costs.

With Astrata onboard this could soon be a thing of the past. Astrata, a leading telematics provider, has designed and developed a dynamic Intelligent Speed Limiting and Monitoring (ISLM) system to complement its wide-ranging location-based products.

This recent company innovation monitors a vehicle's speed and behaviour depending on a pre-defined limit and in a pre-defined area on a pre-defined road. It then limits the speed appropriately.

GLP100

Astrata has based the system around its advanced telematics product, the GLP100. This approach enables system operators to dynamically manage a vehicle's speed whilst taking advantage of the

GLP100's key features such as: Fleet Management, Driver ID and CANbus/FMS interface.

The GLP100 is a compact, state-of-the-art GPS tracking device designed for homeland security and fleet management applications. A primary feature is its small and lightweight form, making it easy to conceal. It boasts real-time monitoring, secure communications and expandability to other sensors, effectors and data devices. The product's driver identification feature allows only authorised drivers to use a vehicle and equipment. Shawn Sanderson, Astrata's Global Sales & Service Director comments:

"The GLP100 controls all elements of the on board system. A vehicle's speed can be controlled using many different options including an electronic accelerator speed interrupt and an engine exhaust brake."

The GLP100's currently in use are controlled by Astrata's GLS software. The software, designed in house by Astrata's own IT and engineering teams is a revolutionary system capable of monitoring and scaling to millions of units. What's more, it can assign zones or roads with specific speed limits across a country, region or town. These assigned zones are automatically synchronised with the GLP100 devices to ensure that every vehicle has up to date speed limit data. The system will also generate reports which provide details of daily usage, working hours, driver performance reports, shift hour details, trip details, unloading reports, equipment operation reports, and mileage reports. These reports help in calculating fuel consumption and efficiencies.

Monitor Speed, Advise - Driver Reacts





Speed is measured using the GPS component and a direct link to a speed pulse sensor. This provides seamless speed control even in difficult GPS operating environments such as tunnels, or remote locations. Astrata's ISLM system is already on trial with an undisclosed transport authority with a planned roll out of 80,000 vehicles after the pilot.

Further Benefits

Intelligent Speed Limiting and Monitoring allows operators to improve safety but it also has other important benefits including greater fuel efficiencies - achieved by ensuring vehicles do not break the speed limit. As such, for organisations operating large fleets of vehicles, this not only helps reduce annual fuel costs, but also helps with vehicle maintenance and repairs, as vehicles will have to be driven more conventionally.

Astrata's technology has applications across many varied vehicle fleets. Large prime mover operators are able to increase the safety of their fleets, and public vehicle authorities (e.g. public buses, school buses) are able to guarantee the speed of their vehicles giving peace of mind to the users and operators.

The ability to control speed also enhances a company's ability to adhere to duty of care legislation. Managers and directors have added peace of mind that their vehicles will not be driven to excessive speeds, coupled with an integral accident buffer in the GLP100, Astrata's products can really affect the safety and security of employees.

"The whole idea of safety and speed management is a topical subject at the moment," commented Astrata's Global Sales & Service Director, Shawn Sanderson.

"We firmly believe the innovative approach we are taking with our ISLM system will make a significant impact on road safety. We are receiving enquiries from existing and potential clients worldwide from a variety of industries."

Astrata is focused on advanced location-based IT services and solutions (telematics) that combine GPS positioning, wireless communications (satellite or terrestrial) and geographical information technology, which together enable businesses and institutions to monitor, trace as well as control the movement and status of machinery, vehicles, personnel or other assets.

Astrata has designed, developed, manufactured and currently supports ten generations of telematics systems with units deployed worldwide.

Astrata has offices throughout the world including the United States, Europe, the Middle East and Asia.

For further information please visit www.astratagroup.com

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