

CANBus and FMS Support

Overview

The Opus Fleet & Distribution Automatic Vehicle Location GPS Tracking 'Black Box' hardware supports a CANBus interface as standard, allowing direct connection to this increasingly common network feature on trucks and vans.

This connection gives access to a wide variety of vehicle information such as revs, MPG, mileage, instantaneous fuel consumption, power take off etc, which can then be used by the Transport Management Centre (TMC) to monitor individual driver's driving style and vehicle performance.

Moreover, within the CANBus interface on the AVL Black Box, the FMS standard is also supported. Using CANBus as the connection, FMS gives vehicle-independent data from manufacturers such as Scania, Daimler/Chrysler, Volvo, Iveco, DAF, and MAN.



Business Benefits

Connection to your vehicle brings new information to the tracking hardware, TMC and reports generated from it.

- Recording of key events, such as over revs, high fuel consumption and fuel logging on a per journey basis. This can be used as a tool to educate your drivers and ultimately reduce your fuel and servicing bills.
- Reporting of key information, such as service indication, allowing planning of fleet usage and spot hire requirements. Service requirements can be logged into the asset calendars of the TMC, so these events can be planned for.
- Projection of vehicle usage and replacement dates. Particularly useful for lease agreements where penalties may be incurred for excessive mileage.
- Vehicle manufacturer/model comparisons, aiding future purchasing decisions.

CANBus / FMS - Key Features

- Integrated CANBus support within the Opus Fleet & Distribution vehicle tracking hardware.
- Certified and tested FMS support.
- Reporting of: fuel used, fuel level, engine speed, axel weight, total engine hours, VIN number, total mileage, service distance, tachograph speed, engine coolant temperature.
- Support of future drivers' smart card information, such as: driver ID, driver hours remaining and working state.

Note: FMS features supported vary by vehicle type.

▼ FUEL CONSUMPTION

▼ WEAR & TEAR

▼ MAINTENANCE COSTS

▲ SERVICING EFFICIENCY

▲ DRIVER CONFORMANCE

▼ ACCIDENTS

▼ INSURANCE COSTS

Functional Summary

A connection from the Opus Fleet & Distribution tracking hardware into the existing vehicle CANBus gives it the ability to report more events to the Transport Management Centre (TMC) for subsequent alerts and reporting purposes.

Through the combination of 'soft telematics' (i.e. GPS tracking), proof of delivery / collection, and 'hard telematics' (i.e. CANBus / FMS) data, Opus Fleet & Distribution now offers a hugely comprehensive real-time vehicle management system.

The tracking hardware uses its built-in business rules, configured in exactly the same way as regular 'tracking type rules' to determine what events are logged and which are reported in real-time to the TMC.

Subsequently, this information is managed just like any other exception event in the Transport Management Centre.

For example, the driver debrief function of the TMC can be used for driver education immediately at the end of the trip, or the historical data can be extracted using various KPI reports to highlight specific hot spot issues and also rank and score driver performance to support driver education and reward schemes.