Fleet Management System (FMS) gateway

Heavy Truck Electronic Interface Group (formerly called COTEL), which is a sub-group within ACEA (European Automobile Manufacturers’ Association), has developed a standardized interface for FMS products. The major European truck manufacturers have agreed about this standardized interface. The advantage with this interface is that there can be a mix of different truck brands within a fleet using the same FMS system.

Any FMS system following the FMS standard can thus be connected to all trucks equipped with this standardized FMS interface. In a Volvo truck the interface is available via an FMS gateway (FMS-PK) located behind the dashboard. The FMS gateway then works as a port, where information from the vehicle internal network is translated into the FMS standard and sent to the FMS system.

The interface handles information such as road speed, fuel consumption and engine rpm etc. The communication between the vehicle network, the FMS gateway and the FMS system is done via a Controller Area Network (CAN) link. The FMS connector, which is placed behind the dashboard (see picture), follows the standard proposed by the FMS forum mentioned above.

The FMS interface also supports remote downloading (to specified home office) of data from the digital tachograph, both from its internal memory as well as data from the driver card. This requires an FMS system that also supports this feature.

Further information about the FMS standard is available at the web-page of the FMS forum, “www.fms-standard.com”. More details around the exact data supported by the Volvo Trucks FMS gateway as well as detailed installation information are available on the VBI site (Volvo Body Builder Instructions).

FEATURES AND BENEFITS

- Supports remote downloading (to specified home office) of data from the digital tachograph (also requires a vehicle FMS system supporting this feature).
- Works as a firewall to minimise the risk of interference or manipulation of the internal vehicle network. It will not support any request from an FMS product from another brand into the vehicle network.
- Supports and transmits diagnostic information about hardware components and software related functions used by the FMS system.
- 12 pin connector that includes the FMS CAN lines as well as 24 Volt Power / Ground.
- Complies with the FMS Standard Version 2.0 stipulated by ACEA.