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ESS launches CANgine FMS ECO

CANgine FMS ECO



At the Embedded World 2008 in Nuremberg ESS introduced a new option for its successful CANgine FMS: The ECO option not only sends the FMS data in a readable and easy to process form to the telematics equipment but additionally monitors many vehicle data concerning the fuel consumption. With these

data sampled and sended to the carriers server the controller is able to find out the drivres predestined for trainings in economic manner of driving.

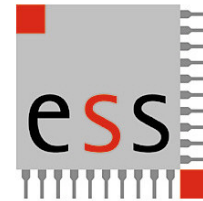
Minimizing Fuel Consumption by driver training based upon sampled data

Equipped with the ECO option CANgine FMS monitors a lot of consumptionrelevant data beside her standard function (cyclical output of vehicle working data).

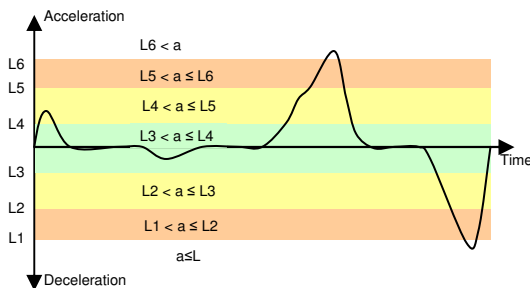
By means of two additional command the telematics host unit starts or ends the monitoring process. When data sampling is active (up to 99 days sampling time is possible) consumption relevant data is monitored and recorded. In particular the values for vehicle speed, vehicle acceleration (positive and negative), throttle position and engine speed are grouped in so called profiles. At the end of monitoring, when the telematics host unit dens the end command fuel consumption values and average speeds are calculated. This is done with different values as total distance, total time, time when motor was running or time when vehicle was in motion. Results are generated for each of the two drivers when possible and reasonable.

Line	Data	FeldAnzahl
1	Basic Data Block 1: Trip Name to TotalTime	8
2	Basic Data Blcok 2: PTO v=0 to FuelC D2	13
3	Fuel Eco Data	6
4	Time States Drivers	12
5	Mean Speeds	7
6	Speed Profile	30
7	Accelerate and Decelarate Values	18
8	Accelerate / Decelerate Profile	21
9	Profile of Throttle Positons	12
10	Profile of Engine Speeds	9
	Total	136

When the telematics host unit ends trip recording CANgine FMS ECO send a data set which contains 136 different values and contains the global data and the profile values in form of tables.



Adaptable to various trucks



As the standard functions of CANgine FMS also the ECO functions can be parameterized in a high degree. The boundaries for each profile can be adjusted to meet the requirements of the various types of trucks and busses.

The dimensions of CANgine FMS are even with the option ECO only 53 x 34 x 16 mm³.

Background Information

CANgine FMS was launched in 2003 by ESS. The small device is equipped with a powerful micro controller and reads real time data on the CAN / FMS bus of a truck or bus. The data is filtered and pre-processed and then sent via serial link or Bluetooth to a telematic host computer. The range of the transmitted date, the cycle time for transmission and other parameters are selectable. By means of CANgine FMS supplier of telematic equipment are able to merge vehicle operational data (including the tachograph data of both drivers) into their data set. In this way the fleet operator gets useful additional information on his server. These additional data allows him to evaluate the cost-effectiveness of operating his fleet of vehicles. The FMS standard was published in 2002 by the six most important European truck manufacturers. In 2005 the Bus FMS standard was published which contains some more data concerning door status and other.

CANgine FMS is now used in more than 30 countries of the world.

Further information is available at www.CANgine.com, which is regularly updated with the latest information.

Pictures can be found on our Web site in News/Press

CANgine_FMS_hr.jpg: FMS to RS232 Gateway
CANgineBT_FMS.jpg: FMS to Bluetooth Gateway
CANgineLogo.jpg

Embedded Systems Solution

ESS Embedded Systems Solutions is a privately owned German company. ESS specializes in the development of microcontroller based applications for industrial communication, industrial automation and automotive applications.

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