



## ENAIKOON can-66

CAN bus data analysis to monitor the fuel consumption and other engine information including diagnostics for commercial vehicles

A CAN bus is installed on every modern-day truck, construction equipment, bus, and consumer vehicle.

The CAN bus continually reports a variety of data regarding the operating conditions of the vehicle.

Evaluation of this data leads to better optimisation of the vehicle, aiding the fleet owner in overall cost-reduction. These cost-saving methods result in:

- saving on fuel by optimal selection and adjustment of the vehicles
- saving on fuel with personalised driver training
- fewer accidents with adapted and supervised driving style
- less rugged wear and tear on the vehicles by monitoring and motivating the drivers
- fewer and less costly vehicle service repairs through remote supervision of the vehicle condition
- timely repair of broken vehicles and equipment with remote warning signals
- real-time analysis of the actions of each machine (e.g. operating hours, power generated, etc.)

## Typical users of this technology

businesses and industries that benefit from CAN bus data evaluation are:

- shipping
- courier express parcel services
- public transportation
- car rental
- car sharing
- leasing
- construction and building
- construction equipment manufacturing
- commercial vehicle manufacturing



## ENAIKOON can-6607

### Manufacturer-neutral analysis for CAN data

Fleet owners and operators have a vested interest in knowing the condition of their vehicles' fuel consumptions and handling by the driver.

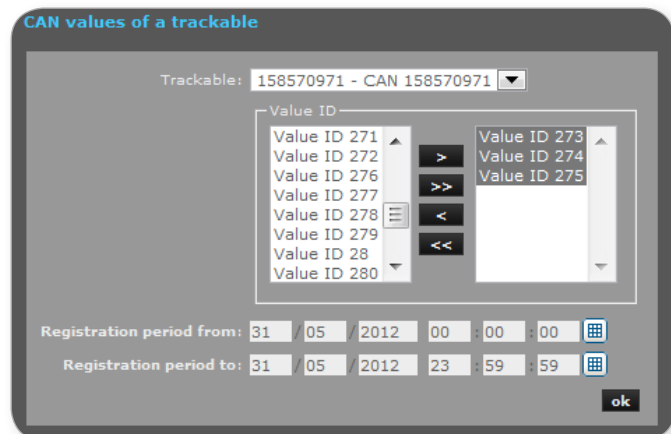
The customised analysis software of the ENAIKOON can-6607 provides the necessary data for these evaluations.

Employees may drive very rough and misuse the vehicle in order to reach their destination as fast as possible, when they are not empowered by, or do not identify with their company or their vehicle. With ENAIKOON can-6607 such situations can be promptly recognised and avoided.

In addition, various parameters of vehicles can be monitored (e.g. warning lights, mileage, oil temperature, etc). This allows you to easily determine the date for the next service, assuring your vehicles are always in good working condition.

With the ENAIKOON can-66 family of products, you receive the integrated CAN bus completely independent of any particular commercial vehicle manufacturer and that supports the FMS standard in all versions.

This software allows you to conveniently collect vehicle data from all manufacturers into one web portal. This is to ensure that the measured values are accurate when comparing the cost and performance of different vehicles, allowing you to decide the most suitable vehicle for each task.



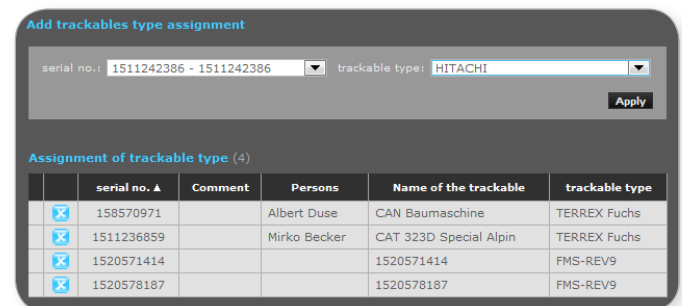
### How ENAIKOON can-66 works

The ENAIKOON locate device transmits pre-calculated data from ENAIKOON can-6602 through GPRS or text message (SMS) to the ENAIKOON M2M-commserver.

Some ENAIKOON onboard units already have the ENAIKOON can-6602 functionality integrated, specifically so that you do not need a separate CAN adapter. In most cases, we recommend the ENAIKOON locate-06 device, because of its built-in CAN interface and economic utility.

ENAIKOON can-6602 filters data, which does not need to be transmitted via GPRS to the back-end system. This filter reduces the cost for cellular network usage and speeds up the processing time of relevant CAN data reports.

The filter recognizes the aggregated data, which means that not every update is transmitted to the server. Instead, the software inside the device builds a table that indicates the details of a specific update, which can be sent later more cost efficiently.



At pre-defined events (e.g. "ignition off") these tables are transmitted to the back-end server. This allows the device to transmit larger and richer content data on the limited bandwidth of GPRS.

Once this data reaches the server, it becomes normalised. This means that, the units of various vehicles and machines will be standardised and that data with the same meaning, but with different CAN-IDs (due to the different engines) are grouped in the same table called "can data table".

Through a user-friendly interface, the user can configure this normalisation process by adding and changing the tables in the database.

## CAN bus data analysis

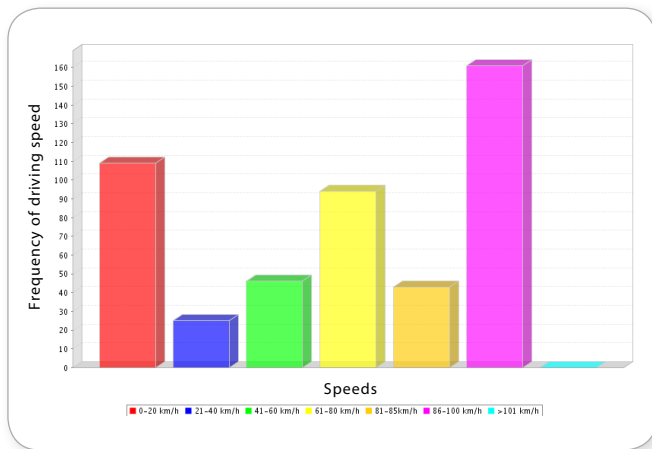
The user has two options for analysing CAN data

- ENAIKOON can-6607

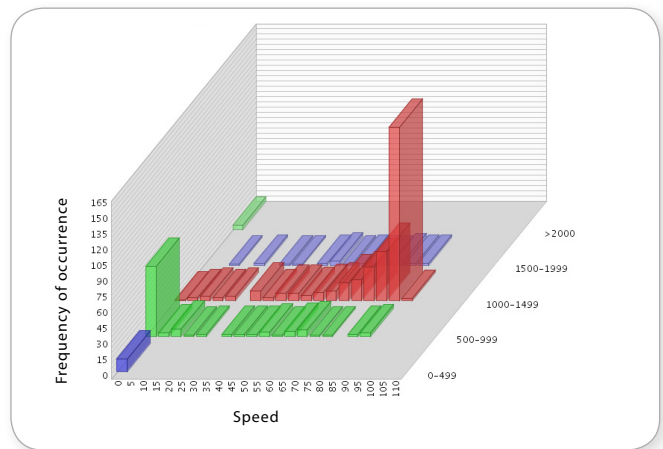
This web-based application was developed by ENAIKOON and the Fraunhofer-Gesellschaft (Germany), the largest organization for applied research in Europe. It reads the normalised data from the CAN data table and provides the following different reports and charts:

- You use your own software and read the CAN data from the ENAIKOON M2M-commserver. We would be happy to provide you with the required information on the relevant database.

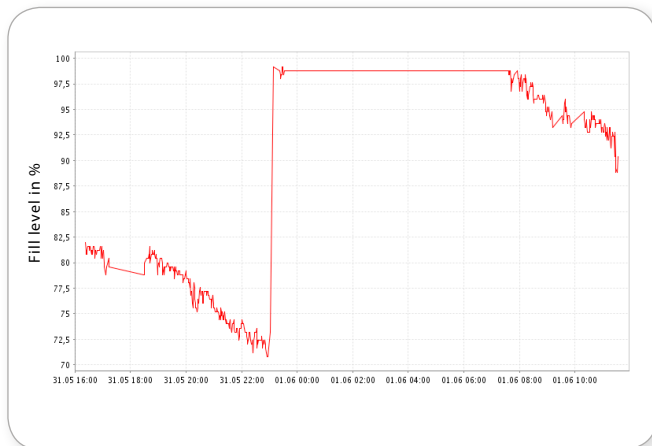
### Distribution of speed



### Frequency of occurrence of RPM and Speed



### Fill level



### Average consumption per 100 km



## Products and prices

Product	Part no.	Product description	Price
<a href="#">ENAIKOON M2M-commserver web service</a>	MMC-03-14	Use of the ENAIKOON M2M-commserver, operated by ENAIKOON for the data exchange with ENAIKOON locate modules This service is required for transmitting CAN data from the vehicle to the analysis software	€ 24.90 per vehicle per month
<a href="#">ENAIKOON can-66 web service</a>	MMC-05-66	Extension of the ENAIKOON M2M-commserver (MMC-03-14) to receive and process CAN bus data	€ 9.90 per vehicle per month
<a href="#">ENAIKOON can-6607 web service</a>	CAN-05-07	Analysis software for CAN bus data; reports and creates charts of machine data	€ 19.90 per vehicle per month
<a href="#">ENAIKOON can-6602</a>	CAN-05-02	CAN interface used to connect an ENAIKOON locate-06 module to the CAN bus of a CAN-capable commercial vehicle containing <ul style="list-style-type: none"> <li>● serial cable to connect this device with ENAIKOON locate</li> <li>● CAN interface cable to connect the interface box to the vehicle socket</li> </ul> Please confirm with ENAIKOON to verify that you need this device	€ 290.00
<a href="#">ENAIKOON can-6610</a>	CAN-05-10	Investigation of the CAN data format provided by a particular type of vehicle Flat fee per vehicle type	€ 1,980.00 plus travelling expenses
<a href="#">ENAIKOON locate-06/can</a>	LOC-11-06	Basic module GPS/GPRS <ul style="list-style-type: none"> <li>● configurable</li> <li>● CAN bus connector</li> <li>● 1-Wire connector</li> <li>● connection for a camera</li> <li>● solar panel support</li> <li>● GSM / GPS antenna</li> <li>● cable for power / ignition</li> </ul>	€ 299.00

**Note:**

For security reasons, ENAIKOON only offers read-only access to the CAN bus