

Operating manual

HD Manager 8

Art. No.: 233 500 440
Art. No.: 233 500 441

Translation of the
original operating manual

Copyright

It is essential that you read this manual thoroughly before installing and using this software. Warranty claims for malfunctions and damage resulting from insufficient knowledge of the content of this manual will be deemed null and void.

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service@tecalemmit-usa.com

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1 Safety instructions

This software has been programmed according to the very latest technical standards and to recognized safety and technical regulations. Nevertheless, improper use could result in data loss. Therefore, it is essential that you follow the instructions provided in this manual, in particular the safety instructions and the sections marked with warning symbols.

Warning notices and symbols

In this operating manual, the following symbols are used for especially important points.



Please note



Specific details and/or instructions for damage prevention



Warning

Organizational measures

 This operating manual is to be kept within easy reach at the place of operation! Each and every person involved in the installation and use of this software must have read and understood the entire operating manual.

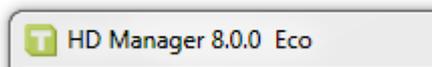
Qualified personnel

 All persons who install and use this software must possess the necessary qualifications for these tasks. The scope of responsibility, scope of competence and the monitoring of personnel must be regulated by the operator in a detailed fashion. If these personnel do not possess the required knowledge, they are to be trained and instructed accordingly. In addition, the operator should ensure that all personnel fully understand the content of this operating manual.

2 HD Manager 8

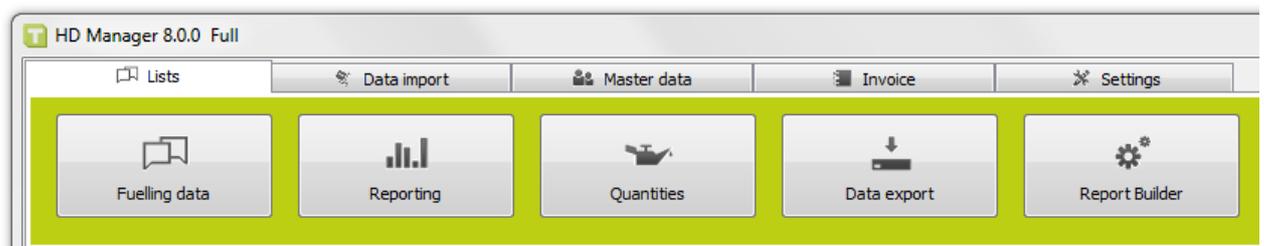
The HD Manager 8 program manages fueling data for Horn fuel terminals (HDA range). The software also manages details of drivers and vehicles, whether retrieved or imported.

After installation of the program, its version number is displayed in the title bar and underneath the company logo.



The Eco version of the program is initially installed. The program is also available in the following versions (some of which are paid upgrades): Full, Server, Client, Demo, Service. Depending on the version that you have registered, data can be managed in different ways.

Use the individual tabs and their corresponding buttons to operate the program.



(The Full version is depicted here)



Tip: All graphics shown in this documentation use the English language setting.

3 Version information

3.1 Eco

This basic version of the software, HD Manager Eco, allows you to retrieve or import data from the following fuel terminals **only**: HDA eco (Wonder Box), HDA 5 eco (Super Box) and HDA Pro. The **range of functions** available in this version of the software is **restricted**.

The Eco version can be connected to a fuel terminal via a serial interface (COM port on the PC). Using this interface, data can be retrieved from the terminal, and master data can be sent to it.

The HDA eco (Wonder Box), HDA 5 eco (Super Box) and HDA Pro additionally include a built-in USB port. A USB flash drive can be used to transfer data between the dispenser and the program.

Certain fuel terminals in the HDA family can also feature an optional LAN/WLAN connection. Data can then be transferred over the corresponding network infrastructure.

3.2 Full

The Full version includes the following additional menu options that aren't available in the Eco version:

- Delivery quantity
- Report Builder
- Messages
- External fueling
- Fuel Indicator, Tank level calculation
- Groups
- Invoice
- Data retrieval over Internet

Compared to the Eco version, the Full version also includes additional settings for outputting data. The differences between the different versions of the program are explained in the relevant chapters.

The Full version needs to be activated under *Settings > Registration*.

3.3 Service

For servicing purposes, it is possible to activate a free Eco version of the software to the Service version. Go to the *Settings* tab and click on the *Activation* button. The following window appears.

The screenshot shows the 'Activation' window with the following details:

- Identification number: FB11-EF42-4F95
- Product code: [Empty]
- Company: [Empty]
- Phone number: [Empty] *
- Works number: [Empty] *
- Online activation: [Button]
- Activation code: Service [Field]
- Activate: [Button]
- HD Manager Version: Eco
- Licenses: 1
- Proxy settings:
 - Server: [Empty]
 - Port: 8080
 - Username: [Empty]
 - Password: [Empty]
 - Activate:
 - Activate by mail: [Button]
- After Sales Service:
 - T 281-446-7300
 - F 281-619-8109

Enter **Service** in the activation code field and confirm by clicking *Activate*. The version information now shows *Service*. The software's range of functions once again matches those of the Eco version.

However, in this version it is **also** possible to retrieve and send master data for **all** Horn HDA fuel terminals (except of internet). This can be done via *Master data - HDA - Fuel terminals*.

Via *Import data - Import data - Retrieve*, it is also possible to retrieve delivery data for all types of fuel terminals in the HDA family. However, when retrieving data, there is a fixed limit of **10 liters**. (This limit does not apply to the HDA Eco terminal.) Furthermore, it is **not** possible to mark data that has previously been retrieved from a terminal as already retrieved.

Similarly, when *importing* delivery data (XC Master 3 & 4, DataKey, USB), there is also a fixed limit of **10 liters**.



Tip: Activation as the Service version is not stored in the database. If required, the activation process should be repeated on program launch.

3.4 Server

The Server version allows several computers to access the common database (client/server architecture). The user whose PC was used to activate the Server version of the software becomes the main administrator of the system.

Individual users can also be assigned admin rights by the main administrator. These rights allow users to import, edit and delete data.

The Server version is activated for use by a certain number of users. These users are able to simultaneously access data.

For more information, including details of pricing, please contact our sales department: <http://www.tecalemit-usa.com>

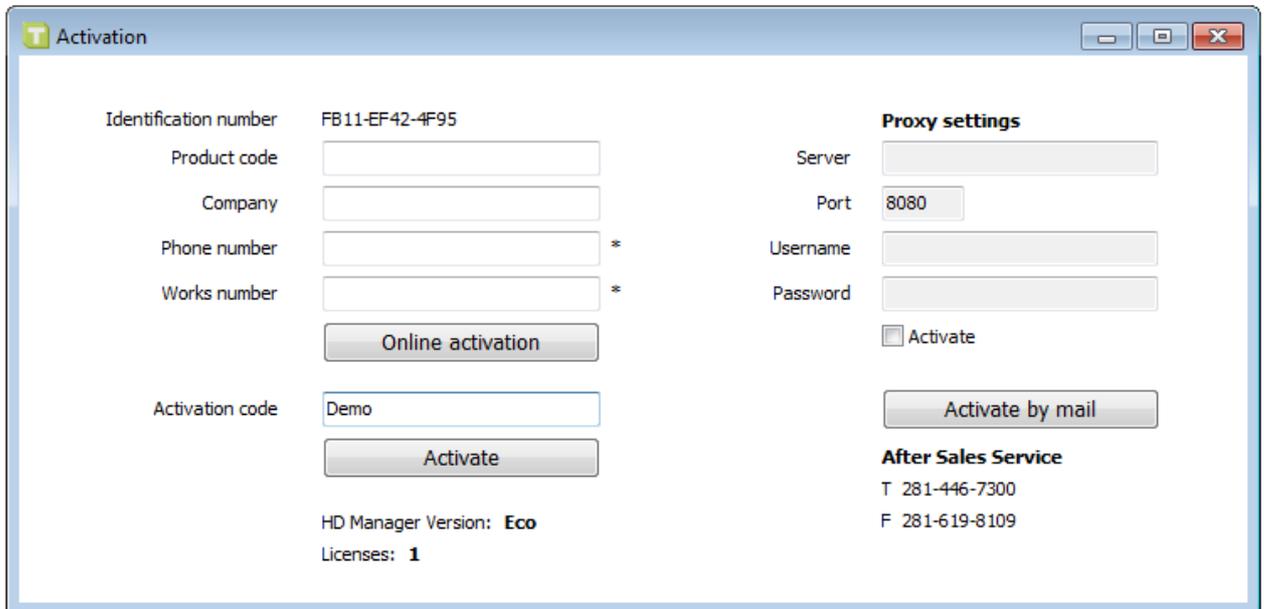
There are special arrangements in place for setting up the Server version. This is by arrangement with our service department.

(Further information: <http://hdmanager.net/server/files.php>)

3.5 Demo

Every copy of the **Eco** version can be converted into a time-limited **Demo** version of the **Full** version.

Go to the *Settings* tab and click on the *Activate* button. The following window appears.



The screenshot shows a window titled "Activation" with the following fields and options:

- Identification number: FB11-EF42-4F95
- Product code: [Empty text box]
- Company: [Empty text box]
- Phone number: [Empty text box] *
- Works number: [Empty text box] *
- Online activation: [Button]
- Activation code: Demo [Text box]
- Activate: [Button]
- HD Manager Version: Eco
- Licenses: 1
- Proxy settings:
 - Server: [Empty text box]
 - Port: 8080 [Text box]
 - Username: [Empty text box]
 - Password: [Empty text box]
 - Activate:
 - Activate by mail: [Button]
- After Sales Service:
 - T 281-446-7300
 - F 281-619-8109

Enter **Demo** in the activation code field and confirm by clicking *Activate*. The version is now shown as **Demo (Full Version)**.



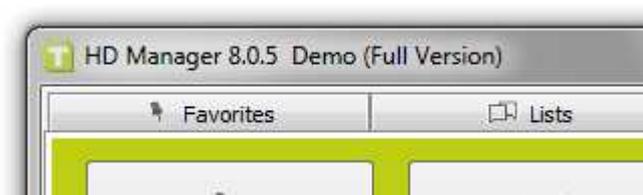
The software's range of functions are now the same as those of the paid-for **Full** version. Only fuel terminals that communicate via the internet are not supported by this version.



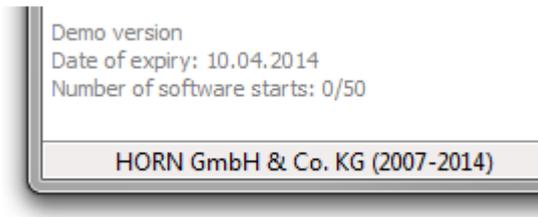
TECALEMIT

8.2.1 Demo (Full Version)

The version name is shown under the company logo in the main screen, as well as in the title bar.



The Demo (Full Version) runs for a maximum of 30 days or 50 program launches. After **30 days have elapsed** (from the date of activation), or if the program **has already been launched 50 times**, the software is reset to the Eco version.



The current status of the demo version is shown in the lower left of the main window. In the example shown above, the demo version will run up to and including 04/10/2014. The program can be launched 50 times.



TIP: If the program is launched 50 times on the first day, the demo period comes to an end on this first day.

Demo data

During the period that the software runs as the Demo version, it is automatically populated with demo data. The demo fuel terminal has the label **Demo HDA**. Provided that they do not already exist in the system, driver 1001 and vehicles 1001-1003 are populated into the system without a code or transponder ID. Some fueling data for the demo terminal is also added. The fueling data spans the period from 30 days before the current system date to 31 days into the future. Therefore, during the period that the software is running in demo mode, there is data available to help you evaluate the software.



Tip: If a fuel terminal, driver or vehicle is deleted, all corresponding fueling data is also deleted.



Tip: An Eco version can only be converted to the Demo (Full Version) once.

4 Software installation

The HD Manager 8 program runs on Windows XP and above. Earlier versions of Windows are not supported.

Run *hd8setup.exe* to install. Follow the on-screen instructions. **When updating the program, please take steps to ensure that an existing database is not accidentally overwritten.**

The program can only be run once at a time.

The following minimum requirements should be met:

Operating system:

- Windows® XP
- Windows® Vista
- Windows® 7
- Windows® 8

Processor (CPU)

- Intel Pentium® IV 2.0 GHz
- AMD Athlon® XP 2000+

Memory (RAM)

- 512 MB (Windows® XP)
- 1 GB (Windows® Vista, 7 & 8)

Monitor resolution:

- 1024 x 768



Warning: as the software is being continually developed, these minimum requirements are subject to change over the course of time.

5 Activation

The Full and Server versions of the software need to be activated under *Settings > Activation*.

Upon purchasing the software, the customer receives a product code. This product code is required for registering the software.

There are three ways that you can activate your software:

Online activation

A working internet connection is required for online activation. In order to activate the software, you will need to enter the product code and the name of your company. You can also optionally provide a telephone number and works number for the fuel terminal. After clicking on *Activate online*, an activation code is retrieved from the internet.

If this process is successful, the software is immediately activated as the version that you purchased and is ready for use.

The software can only be re-registered if it is reinstalled on the same partition of the same computer.

Activation by email

To activate your software via email, the product code and company name are **mandatory**. Click on the *Activate by email* button. The following email (see screenshot) appears and is already populated with information for you to complete and send. Your activation code will be promptly emailed to the address that you used to request it. This will be no later than on the following working day.



Tip: check your spam/junk filter, if you have one.

The screenshot shows an email composition window. On the left is a 'Senden' button with an envelope icon. To its right are three input fields: 'An...' containing 'service@tecalem.it.de', 'Cc...', and 'Bcc...'. Below these is the 'Betreff:' field containing 'HD Manager 8.0.0 Eco - Activate'. The main body of the email contains the following text:

Identification number: 208D-EC81-4603
Product code: xxxxx-xxxxxxxx-xxxxxxx
Company: Horn Tecalemit
Phone number:
Works number:

Telephone activation

You can also activate your software by telephone, using the service hotline number shown. Please have your **product code** ready.

A dashed-line box containing the following text:

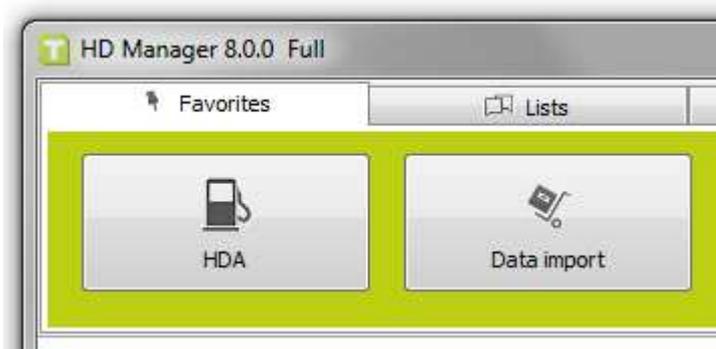
After Sales Service
T 281-446-7300
F 281-619-8109

6 Quick start

6.1 HDA

6.1.1 Set up fuel terminal and connection

In order to work with the HD Manager 8 program, you first need to set up an HDA to manage. Click on the *HDA* button that appears in the *Favorites* or *Master data* tabs.



Depending on the version of the software that you have activated, a number of terminals are ready to set up. The free HDA Eco version only allows you to set up Eco and HDA pro terminals.

Tankautomat	Delivery point	Data transfer	Additional function
Identifier	<input type="text"/>		<input checked="" type="checkbox"/> Vehicle
Type	HDA eco (Wonder Box)		<input type="checkbox"/> Driver
Device address	0		<input type="checkbox"/> Order No
Communication Pin	<input type="text"/>		<input type="checkbox"/> Odometer
Communication	Serial by COM Port		<input type="checkbox"/> Forced Odometer inquiry
COM Port / Modem	COM1		<input type="checkbox"/> Display previous Odometer
			<input type="checkbox"/> Automat lock
			<input type="button" value="Save"/>
			<input type="button" value="New"/>
			<input type="button" value="Delete"/>

The Full version allows you to set up all available types of terminals. See chapter 8.1.3 for more information. Depending on the model, various retrieval methods and options are shown.

Fuel terminal	Delivery point	Data transfer	Products	Additional function
Identifier	<input type="text"/>	Vehicle <input checked="" type="checkbox"/>	<input type="text" value="VEHICLE"/>	
Type	<input type="text" value="HDA pro"/>	Driver <input type="checkbox"/>	<input type="text" value="DRIVER"/>	
Device address	<input type="text" value="0"/>	Order No <input type="checkbox"/>	<input type="text" value="ORDER"/>	
Communication Pin	<input type="text" value="99999"/>	Odometer <input type="checkbox"/>	<input type="text" value="ODOMETER"/>	
Communication	<input type="text" value="LAN"/>	<input type="checkbox"/> Forced odometer query		
COM Port / Modem	<input type="text"/>	<input type="checkbox"/> Display previous odometer		
IP address	<input type="text" value="000.000.000.000"/>	<input type="checkbox"/> Automat lock		
Ident Nr.	<input type="text"/>	<input type="checkbox"/> Shut-off time		
Company name (print-out)	<input type="text" value="HORN GmbH&Co.KG"/>	from <input type="text" value="00:00"/>		
		up to <input type="text" value="00:00"/>		
				<input type="button" value="Save"/>
				<input type="button" value="New"/>
				<input type="button" value="Delete"/>

As part of the initial setup, a name for the terminal must be entered under Identifier.

6.1.1.1 DataKey - USB flash drive

If data will be transferred from the terminal using a DataKey or USB flash drive, this should be specified under Communication. In this case, no further settings are necessary. The terminal can now be saved.

Communication	<input type="text" value="USB flash drive"/>
COM Port / Modem	<input type="text"/>



Warning: if data will later be automatically imported based on the dispenser number, each terminal's number must be unique. In this case, the dispenser number is the same as the device address.

Device address	<input type="text" value="0"/>
----------------	--------------------------------



This is important if you are managing several fuel terminals.

6.1.1.2 COM port/modem

To establish a direct data connection to the terminal, the appropriate communication method must be selected. Additional relevant fields then need to be selected or filled in.

For a direct connection via a serial cable, select the appropriate COM port on your PC.

Communication	<input type="text" value="Serial by COM Port"/>
COM Port / Modem	<input type="text" value="COM1"/>

If data will be retrieved using a modem, the modem should be selected and the telephone number of the fuel terminal entered.

Communication	Modem Connection
COM Port / Modem	Standard 9600 bps Modem
Telephone number	00494618696

When using a **Wavecom** GSM modem (recommended for this type of data transfer), ensure that you select 'Wavecom GSM Modem' for best results. As well as entering the telephone number, you can also enter the PIN of the installed SIM card.

Communication	Wavecom GSM Modem
COM Port / Modem	COM1
Telephone number	00494618696
SIM card PIN	••••

After you have entered all the relevant communication parameters, ensure that the device address matches that of the fuel terminal that you wish to connect to. If the device addresses do not match, **NO** data can be transferred.

Device address	0
----------------	---

If a communication PIN was set up on the fuel terminal, this also needs to be entered here so that data can be transferred. If the correct pin is **NOT** entered, the data connection is initially established but then quickly dropped.

6.1.1.3 LAN

Certain HDA fuel terminals can optionally transfer data via a LAN or WiFi interface (shown as LAN for simplification). If IPv4 network address is configured as a static one (for example: 192.168.11.12), you can enter it into the appropriate field. Furthermore, during manual configuration, the "ident no." of the fuel terminal **must** be entered into the corresponding field. If it does not correspond to the fuel terminal, it will not be possible to establish communications. To view the "ident no." of the fuel terminal, proceed as follows in the menu: "*Main menu > System > Advanced > Interface > Ident. no.*".

Communication	LAN
COM Port / Modem	
IP address	000.000.000.000
Ident Nr.	

Automatic configuration via UDP broadcast

If the network address is unknown (for example, if it is assigned automatically by a DHCP server), you can activate UDP broadcast by going to *Settings > Settings > W(LAN)*. Fuel terminals that are integrated into the network will then automatically be recognized and set up. Their master data (with the exception of driver and vehicle data) will also be retrieved automatically. In this tab, you can also assign a different

port number. This is necessary e.g. when the default port (54937) is unavailable. (See chapter 7.6.1.5).



If the UDP broadcast is blocked by e.g. a firewall or a router, the automatic configuration will not work. Should this be the case, it may be necessary to contact the network administrator or use a static IP address (see above).

You should now save your data communication settings.

6.1.1.4 Internet

The configuration of fuel terminals that communicate via the internet are a special case. These fuel terminals **cannot** be added manually. Instead, they are automatically added via the customer login in the menu: *Settings > Settings - (W)LAN/GPRS* (see chapter 7.6.2).

As soon as a fuel terminal has been added automatically, it can be configured. The designation of the device can be chosen freely, modified, and backed up.

The screenshot shows a configuration window with the following settings:

- Timer controlled connection
- Connection time: 03:00
- Connection interval: 8 h
- Transmission delay: 60 (0..255) sec

If the option "Timer-controlled connection" is selected, the corresponding fuel terminal will establish a connection each day at the specified connection time after the data has been transferred to the internet and read into the corresponding fuel terminal. Starting at the connection time, a connection is repeatedly established to the web server via the internet after the specified connection interval.

E.g.: Connection time: 03:00, connection interval = 8 hrs. A connection will be established at 03:00 (3 a.m.), 11:00 (11 a.m.), and at 19:00 (7 p.m.).

After the specified sending delay in seconds, a new dispensation will be transferred to the web server on the internet.

Each time a connection with the web server is established – after a dispensation as well as timer-controlled (if activated) – the fuel terminal will check if new master data or modified driver and/or vehicle data is available to be retrieved.

6.1.2 Import master data

6.1.2.1 DataKey - USB flash drive

If the fuel terminal supports DataKey or USB flash drives, when you insert one of these into the terminal, all master data is automatically written to the file 'DATAOUT.TXT', provided that it doesn't already exist. This file contains details of all drivers and vehicle data, along with PIN or transponder ID. The file can be read and edited in HD Manager 8.

To read the data, go to the *Import data* tab, click on the *Import data* button and go to the *Import* tab. Click the *Select file* button and then select the appropriate 'DATAOUT.TXT' file. Provided that the data is in a suitable import format, it will be recognized automatically and the format will be shown after the *File:* label.

These are the possible options:

- XC Master 3
- XC Master 4
- HDA eco - USB
- HDA 6 - DataKey
- HDA 7 - DataKey
- Master Data DataKey
- Master Data USB eco
- Master Data USB eco (v. 4.230)
- HDA-5 eco USB data
- HDA-5 eco USB Master Data
- HDA pro USB data
- HDA pro USB Master Data

To import master data, the fuel terminal should already be set up in the system. If you are using the HD Manager 8 program to manage multiple fuel terminals, the imported driver and vehicle data is automatically assigned to all terminals. It is also possible to match individual drivers and vehicles to a particular fuel terminal: go to the *Master data* tab and then *Authorization*. See chapter 7.4.3 for more information.

	imported	exist	Error
Driver	0	0	0
Vehicles	0	0	0

You can import **fueling data** from a fuel terminal (via USB or DataKey) without first having to set up the terminal in the system.

Simply ensure that the *'The import refers to the dispenser number'* box is ticked. When importing, the fuel terminal is automatically set up using its device address, provided that this does not already exist.

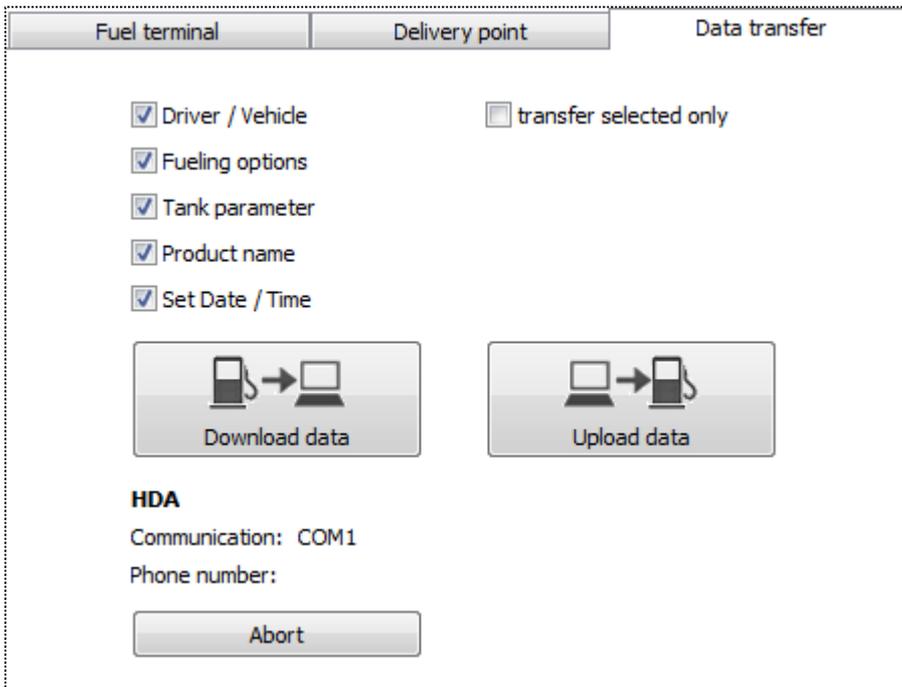


Tip: If, at a later moment in time, you wish to recreate the 'DATAOUT.TXT' file from the dispenser (i.e., if new drivers or vehicles have been set up), ensure that the existing file is first deleted from the DataKey (SD card)/USB drive.

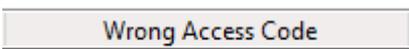
6.1.2.2 COM port/modem

As part of the initial data retrieval, all data will be retrieved from the fuel terminal. Ensure that *Driver / Vehicle*, *Fueling options* and *Product ID* are all selected. When the *Set Date / Time* option is set, the PC's system time is transferred to the fuel terminal and set.

To transfer data from the terminal, go to the *Master data* tab, select *HDA* and then go to the *Data transfer* tab.



The current status of the data transfer is shown in the program's status bar. If transfer was successful, *OK* is shown in the status bar. If an error occurred, a message is shown in the status bar, e.g.: *Wrong Access Code* (see chapter 8.1.8 Status bar messages).



You can use the appropriate menu item to retrieve fueling data from the terminals.

6.1.2.3 Internet

Fuel terminals that communicate with the internet via GPRS automatically transfer their master data to a web server on the internet after the initial GPRS configuration. After selecting a fuel terminal, the corresponding data can be retrieved from the web server. The current status of the data transfer is shown in the Windows status bar. (see chapter 7.6.2).



6.1.3 Import fueling data

You can use the *Import data* tab to import data directly from the fuel terminals or import existing fueling data from a USB flash drive or DataKey (SD card).

6.1.3.1 COM port/modem

In the *Retrieve* tab, click the *Retrieve data* button to retrieve the latest available data directly from the fuel terminal.

If drivers or vehicles were manually set up on the dispenser **without** the master data being retrieved afterwards, they are automatically populated into the system when fueling data is imported. These automatically added drivers and vehicles **do not** yet have a PIN or transponder code in the program. This data should be imported via Retrieve master data (see the *Master data* tab - *HDA - Data transfer*).

After the retrieval of fueling data and existing tank levels, any messages (only in the Full version) are then transmitted to the dispenser.

The following options can also be set:

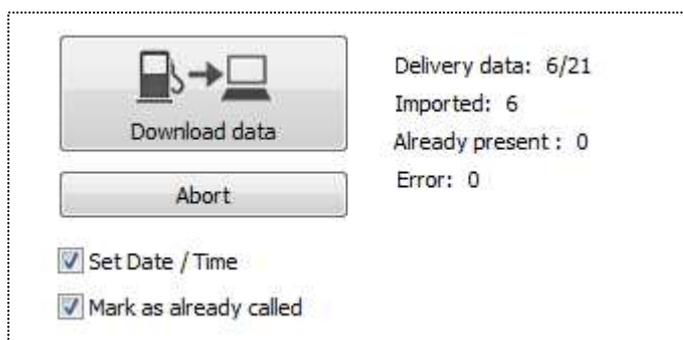
- Set Date / Time
- Mark as retrieved

The *'Set Date / Time'* option sends the PC's system time to the fuel terminal when it is retrieving data, and if necessary, updates it.

When the *'Mark as retrieved'* option is set, fueling data is marked at the pump as having been retrieved once it has been transferred to the program. If this option is not set, when next retrieving data, this data is retrieved once again, along with all new dispensation data.



TIP: Data retrieval is not possible when fuel is being dispensed from the pump.



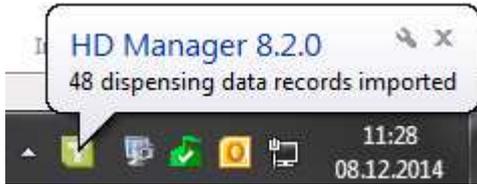
The progress of the data retrieval process is shown on-screen. You can see how many datasets are being retrieved from the pump. The number of new datasets and those that have already been imported are shown separately.

Info: in certain circumstances, it is possible that the number of datasets being imported exceeds that of the maximum number of existing datasets. This can occur when a dataset has to be retrieved anew following a transmission failure.

6.1.3.2 Internet

Dispensation data from the internet is automatically retrieved at the specified interval(s). In addition, it is also possible to manually retrieve the dispensation data. If "Internet" is selected as a communication method, the dispensation data of all fuel terminals assigned to the customer ID will be retrieved. It will not be necessary to select individual fuel terminals for data retrieval.

The quantity of new dispensation data will be displayed in the Windows status bar.



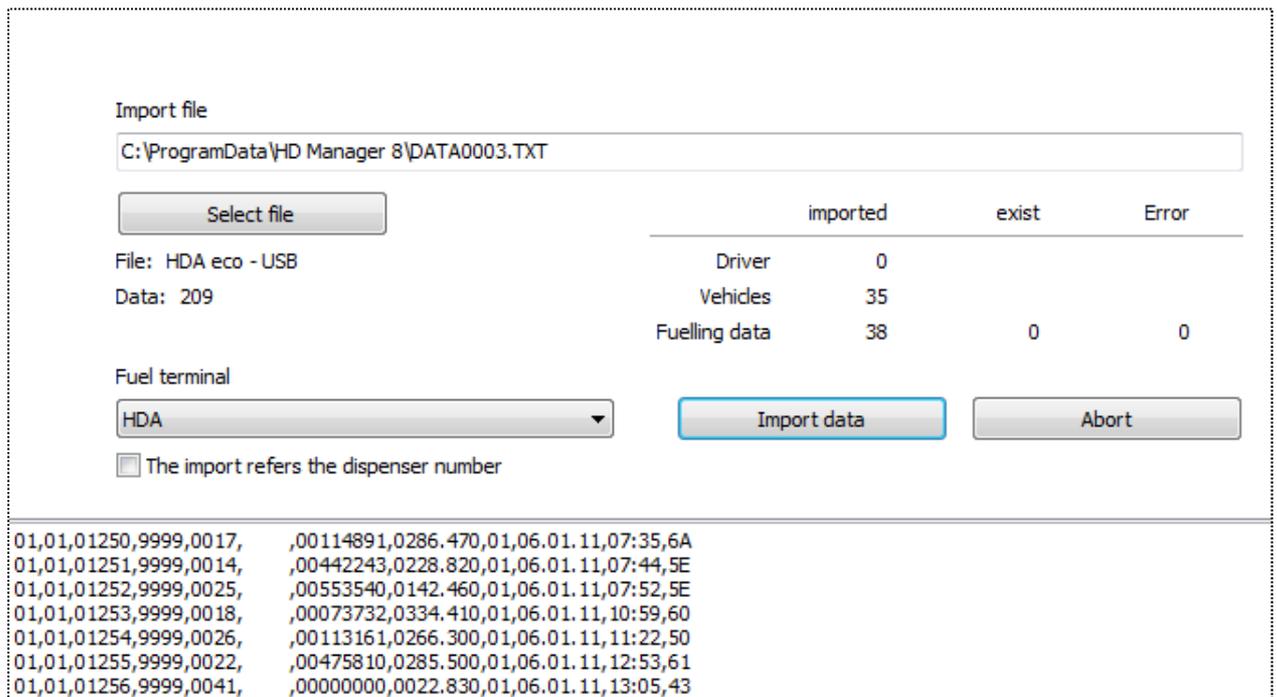
6.1.3.3 DataKey - USB flash drive

The *Import* tab enables you to import fuelling data from a DataKey (SD card) or USB flash drive. You will need a card reading device or a USB port on your PC for this purpose.

Data is written from the dispenser to the data storage device, so that it can be read by the program. The fuelling data files are named as follows: 'DATAxxxx.TXT'. The placeholder xxxx represents a consecutive number, e.g. DATA0012.TXT.

Use *Select file* to choose the file that you would like to import. You can now import data for the selected fuel terminal, or, where applicable, for the dispenser number (device address) specified in the import file.

When importing data based on the dispenser number, the fuel terminal is automatically set up in the system, provided that there isn't already an existing terminal with that device address.



	imported	exist	Error
Driver	0		
Vehicles	35		
Fuelling data	38	0	0

Fuel terminal: HDA

The import refers the dispenser number

```
01,01,01250,9999,0017, ,00114891,0286.470,01,06.01.11,07:35,6A
01,01,01251,9999,0014, ,00442243,0228.820,01,06.01.11,07:44,5E
01,01,01252,9999,0025, ,00553540,0142.460,01,06.01.11,07:52,5E
01,01,01253,9999,0018, ,00073732,0334.410,01,06.01.11,10:59,60
01,01,01254,9999,0026, ,00113161,0266.300,01,06.01.11,11:22,50
01,01,01255,9999,0022, ,00475810,0285.500,01,06.01.11,12:53,61
01,01,01256,9999,0041, ,00000000,0022.830,01,06.01.11,13:05,43
```

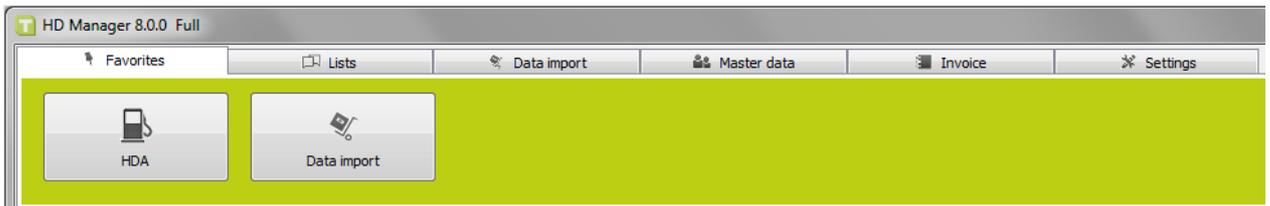
The progress of the data import process is shown on-screen. The continuous report shows details of the current import. The number of new datasets and those that have already been imported are shown separately.

Info: If fueling data is imported with details of drivers or vehicles that do not already exist in the system, they are automatically added. However, these drivers or vehicles do not have a PIN or transponder ID. (See the chapter 6.1.2: Import master data.)

7 HD Manager 8

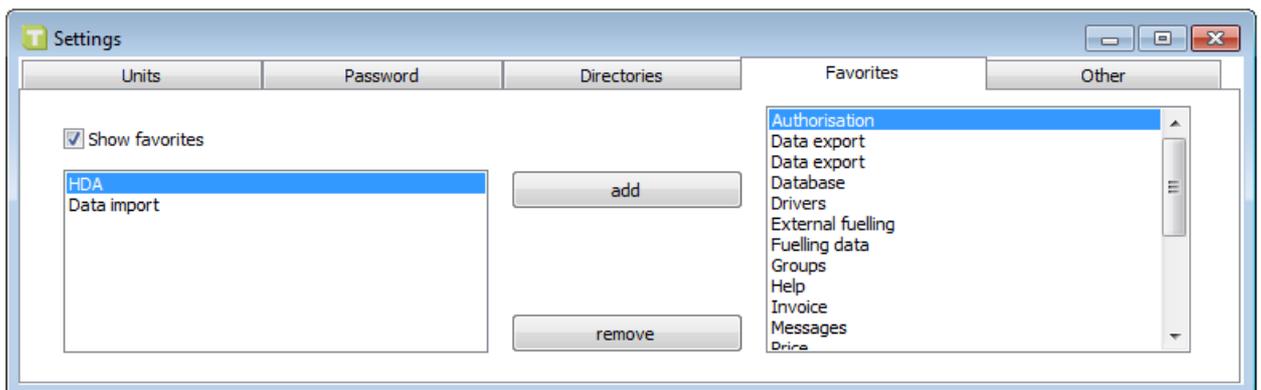
7.1 Favorites

You can use the *Favorites* tab to store program functions that you use most often. After the initial launch, setting up a fuel terminal plus importing master data and fueling data are included.



The free basic version of the program, Eco, only allows you to set up and manage HDM Eco and HDM Pro fuel terminals. If you need to manage other types of fuel terminals using HD Manager 8, or if the range of functions in the free basic version is too restrictive, you will need to activate the software. See chapter: 5 Activation.

Favorites are added or removed via the *Settings* tab > *Settings* > *Favorites*. Set 'Show favorites' to either show or hide the favorites tab. You can add up to 6 favorites.



7.2 Lists

Data that has been retrieved or imported is clearly displayed in a list. Depending on the version of the software that you are using (Eco, Full, Server, Service), different list items are available.



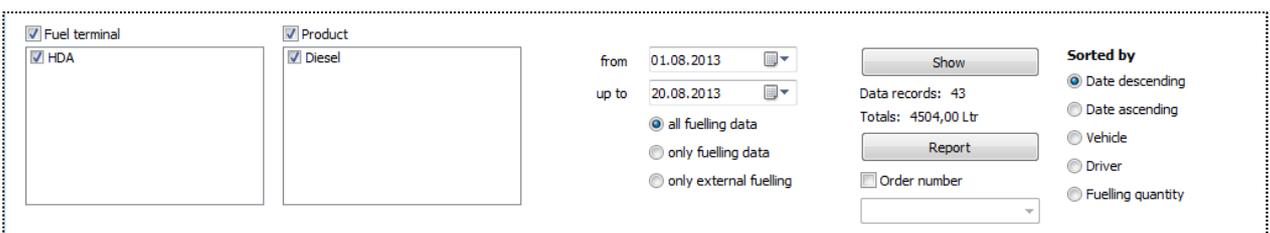
7.2.1 Fuelling data

All fuelling data is shown in list form. Lists are generated based on your the date range that you specify. Output can be restricted to the selected fuel terminals or products. You can also create a report of the resulting data.

If order numbers are used on the fuel terminal, you can create lists based on individual order numbers.

This screenshot shows the search interface for the Eco version. It features two selection boxes: 'Fuel terminal' with 'HDA' selected and 'Product' with 'Diesel' selected. Date filters are set from '01.12.2014' to '08.12.2014'. A 'Show' button is highlighted in blue. Below it, the summary shows 'Data records: 16' and 'Totals: 1683,66 Ltr'. A 'Report' button is also present. The 'Sorted by' section has radio buttons for 'Date descending' (selected), 'Date ascending', 'Vehicle', 'Driver', and 'Fuelling quantity'. There is also an 'Order number' checkbox and a dropdown menu.

Eco version: You can choose a date range and restrict output to an individual order number. The export of the data is sorted according to date (in descending order) or according to the option selected.

This screenshot shows the search interface for the Full and Server versions. It features two selection boxes: 'Fuel terminal' with 'HDA' selected and 'Product' with 'Diesel' selected. Date filters are set from '01.08.2013' to '20.08.2013'. There are three radio button options: 'all fuelling data' (selected), 'only fuelling data', and 'only external fuelling data'. A 'Show' button is highlighted in blue. Below it, the summary shows 'Data records: 43' and 'Totals: 4504,00 Ltr'. A 'Report' button is also present. The 'Sorted by' section has radio buttons for 'Date descending' (selected), 'Date ascending', 'Vehicle', 'Driver', and 'Fuelling quantity'. There is also an 'Order number' checkbox and a dropdown menu.

Full and *Server* versions: External fuelling can either be included, listed separately or not taken into account.

Fuel terminal
 HDA

Product
 Diesel

from 01.04.2015
 up to 29.04.2015

Data records: 49
 Totals: 5050,79 Ltr

all fueling data
 only fueling data
 only external fuelings

Order number

Sorted by
 Date descending
 Date ascending
 Vehicle
 Driver
 Fueling quantity

Fuel terminal	Seq No	Delivery point	Product No	Product	Vehicle	Driver	Order No	Kilometer	OH	Liter	Date
HDA	2790	1	1	Diesel	1001	1001		49214	-	84,24	29.04.2015 02:10:25
HDA	2789	1	1	Diesel	1002	1001		51614	-	52,83	28.04.2015 06:24:25
HDA	2788	1	1	Diesel	1001	1001		48910	-	48,90	28.04.2015 03:00:25
HDA	2787	1	1	Diesel	1001	1001		48703	-	40,36	27.04.2015 07:07:25
HDA	2786	1	1	Diesel	1002	1001		51330	-	69,71	26.04.2015 02:04:25
HDA	2785	1	1	Diesel	1002	1001		51009	-	150,11	25.04.2015 03:03:25
HDA	2783	1	1	Diesel	1003	1001		0	56970	66,79	24.04.2015 15:20:25
HDA	2784	1	1	Diesel	1003	1001		0	57191	42,77	24.04.2015 13:08:25

On all lists, the number of data records and the total amount of fuel dispensed are shown underneath the *Show* button. You can edit driver and vehicle IDs via the *Master data > Drivers* or *Master data > Vehicles* menus.

4654,39 += 4654,39

At the bottom left of the fueling data report, the dispensation amount of the page currently shown is displayed, followed by the total up to and including the current page.

985,72 += 5640,11

7.2.2 Analysis

The fueling data for drivers and vehicles can be analyzed in a number of ways. You can select individual drivers and vehicles for analysis.

Entries can be selected by either double clicking them in the list, or by clicking in the selection box next to their ID. You can specify a data range of your choice. If groups have been set up, you can select a group and the drivers and vehicles assigned to it will be selected automatically.

Vehicle
 1001 - 1001
 1002 - 1002
 1003 - 1003

Driver
 1001 - 1001

Fuel terminal
 HDA

Product
 Diesel

External fuelling
 mpg (miles per gallon)

without group selection

from 01.08.2013
 up to 20.08.2013

The analysis can include or exclude external fueling. The average fuel consumption of a vehicle can be shown in liters per 100 km or miles per gallon. In order to perform this calculation, mileage details need to be entered into the fuel terminal.



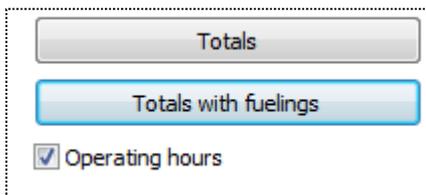
Average fuel consumption is calculated as follows:

Distance traveled = (Maximum mileage - minimum mileage)

Amount of fuel during time period = (Total amount dispensed - first filling)

Consumption = Amount of fuel / Distance traveled * 100

If a vehicle has been set up to work with operating hours, as opposed to mileage, an operating hours option is shown under the vehicle selection field. When this is selected, the list of vehicles only displays those with operating hours. Analysis of these operating hours is calculated accordingly.



7.2.2.1 Report (not in the Eco version)

See chapter 7.2.7

Reports generated with the Report Builder are shown here. Reports are generated based on the vehicles, drivers, fuel terminals and products selected (insofar as these are required). The report covers the selected time period. These self-generated reports can be selected from the list.

7.2.3 Total dispensed (not in the Eco version)

The total dispensed is shown based on the selected fuel terminal and product and for the date range specified. This total can be broken down to daily figures. The overall total is always displayed under the *Show* button.

The values shown in the table can be exported as a CSV file by clicking *Data export*. You can choose the separator symbol for the export from a list. You can edit the CSV files in Microsoft Excel. Microsoft Excel can use either semicolons or commas as separators.

Year	Month	Product name	Liter	Count
2013	7	Diesel	2699,00	21
2013	8	Diesel	4504,00	43

7.2.4 Data export

All fueling data can be exported as CSV or TXT files, covering a time period of your choosing. A number of export options are available to you. You can choose the separator symbol for the export from a list. You can manually export data at any time you choose. The data can be exported with or without column headings, according to the setting in the relevant selection box.

7.2.4.1 Automatic data export

This is where and how you specify that data is automatically exported after data has been retrieved or imported.

To enable automatic export, select the box next to *Show:...*. The following screen appears:

In order to export data, you need to specify the directory in which the new file will be saved. The automatic data export includes all newly imported data. New data is that whose date/timestamp is more recent than that of the most recent entry in the database.

When choosing or specifying an export path, the system checks that the directory actually exists. If the program is unable to access the specified directory, the *Activate* button is inactive. Selecting the *Export file name* option allows you to specify your own name for the file in which all the export data will be written. If the export file already includes data, newer data will be appended. If this option is not selected, each export will result in a separate file being saved to the specified directory. In this case, the files are named as follows:

- data_yymmdd_hhmmssnnn.txt (Example: data_131129_123055020)

Data is automatically exported for all the fields you selected, sorted according to the separator that you specified. Click *Activate* or *Deactivate* to enable or disable automatic data export.

XC Master 4 Format

When selecting the XC Master 4 format, the data is only exported as follows:

```
01,010001,001,001,Test 1, 100,0001.000,01,04.06.02,15:35
01,010002,002,002,Test 2, 200,0002.000,01,04.06.02,15:35
01,010003,003,003,Test 3, 300,0003.000,01,04.06.02,15:35
01,010004,004,004,Test 4, 400,0004.000,01,04.06.02,15:35
01,010005,005,005,Test 5, 500,0005.000,01,04.06.02,15:35
```

7.2.5 Edit mileage

The mileage given for a particular data record can be edited in the data export screen, i.e. if incorrect information was entered by a driver. In order to do this, select the Odometer box.

Odometer

Fuelling quantity Odometer

Date

Price

Select a data record and the relevant mileage entry will be shown in the editing field, ready for you to edit. Click *Save* to save your changes.



Tip: Edited mileage is not transferred back to the fuel terminal.

7.2.6 Delete a single data record

By selecting one displayed output data set, it is possible to delete them.

Data records: 30 Odometer Odometer

Totals: 3431,57 Ltr Fueling quantity

Date selected data record

Price

umber	Driver number	Driver	Vehicle number	Vehicle	Order No	Kilometer	Liter	Date
2796	1001	1001	1002	1002		67225	128,50	16.04.201
2794	1001	1001	1003	1003		56776	80,70	15.04.201
2795	1001	1001	1003	1003		57026	42,01	15.04.201

For deleting administrator rights are required and a security prompt must be confirmed before.

Under some circumstances it is possible to import an accidentally deleted record with the restoring function from the fuel dispenser again.

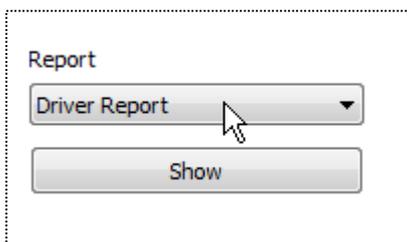
7.2.7 Report Builder (not in the Eco version)

You can create your own reports using Report Builder. To create a report, select the required output fields. Then, specify their position using the *Alignment* field. Use the ruler beneath to help you. You can choose your own column headings.

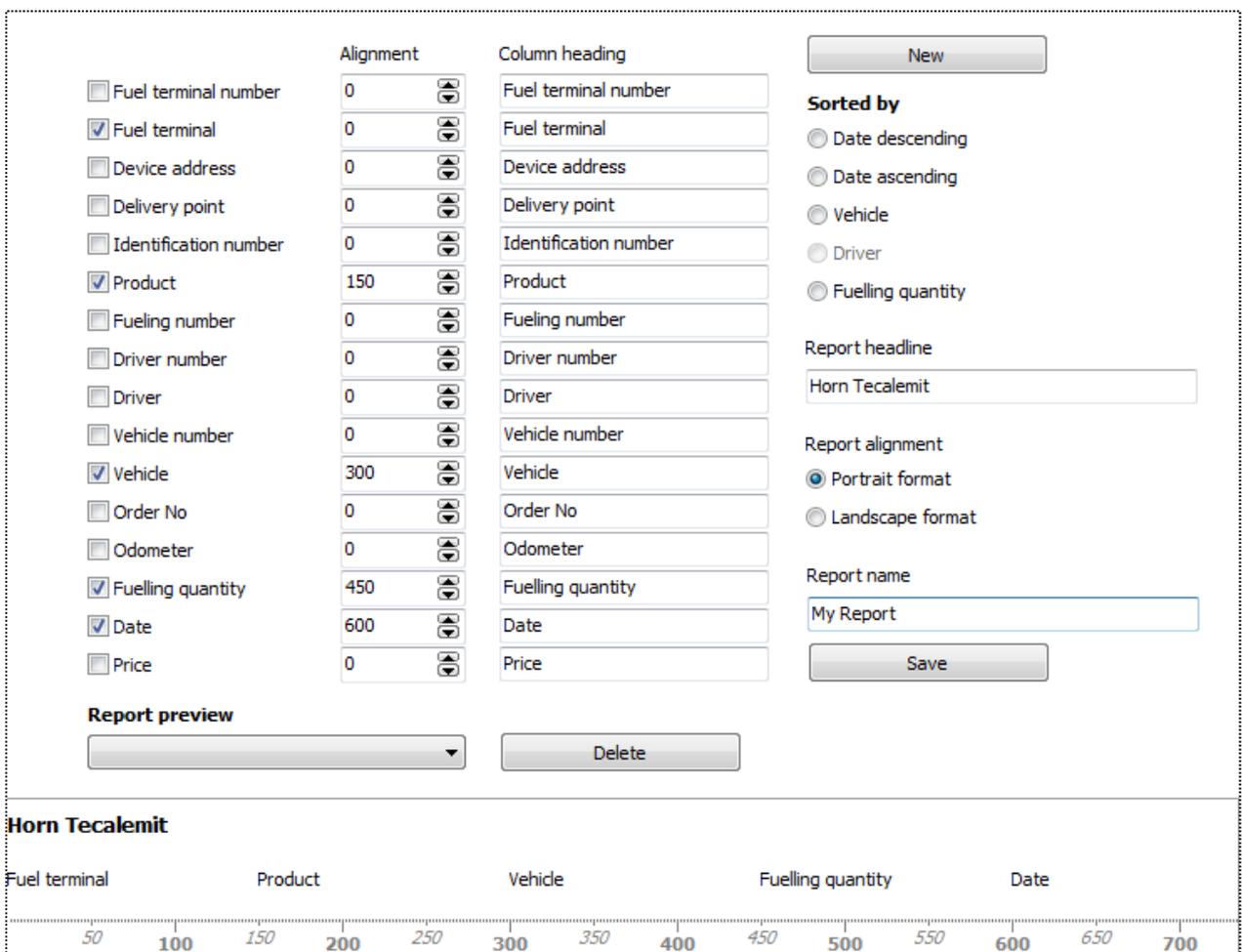
Depending on the output fields that you selected, the relevant sorting options are shown. Choose a name for the report and specify whether it should be in portrait or landscape format.

Click the Save button to save the report with the name that you chose for it. You can use the Report preview menu to select and edit reports that you created previously.

Self-generated reports can be viewed in the menu under "Lists - Reporting".



Report
Driver Report
Show



	Alignment	Column heading
<input type="checkbox"/> Fuel terminal number	0	Fuel terminal number
<input checked="" type="checkbox"/> Fuel terminal	0	Fuel terminal
<input type="checkbox"/> Device address	0	Device address
<input type="checkbox"/> Delivery point	0	Delivery point
<input type="checkbox"/> Identification number	0	Identification number
<input checked="" type="checkbox"/> Product	150	Product
<input type="checkbox"/> Fueling number	0	Fueling number
<input type="checkbox"/> Driver number	0	Driver number
<input type="checkbox"/> Driver	0	Driver
<input type="checkbox"/> Vehicle number	0	Vehicle number
<input checked="" type="checkbox"/> Vehicle	300	Vehicle
<input type="checkbox"/> Order No	0	Order No
<input type="checkbox"/> Odometer	0	Odometer
<input checked="" type="checkbox"/> Fuelling quantity	450	Fuelling quantity
<input checked="" type="checkbox"/> Date	600	Date
<input type="checkbox"/> Price	0	Price

Sorted by

- Date descending
- Date ascending
- Vehicle
- Driver
- Fuelling quantity

Report headline
Horn Tecalemit

Report alignment
 Portrait format
 Landscape format

Report name
My Report

Report preview
Delete

Horn Tecalemit

Fuel terminal Product Vehicle Fuelling quantity Date

50 100 150 200 250 300 350 400 450 500 550 600 650 700

Example: a custom report is shown below.

Horn Tecalemit 15.08.2013 - 20.08.2013

20.08.2013 15:20:32

Fuel terminal	Product	Vehicle	Fuelling quantity	Date
HDA	Diesel	1002	150,11	15.08.2013 04:44:31
HDA	Diesel	1003	56,46	15.08.2013 05:18:31
HDA	Diesel	1002	84,50	15.08.2013 14:22:31
HDA	Diesel	1002	66,84	16.08.2013 07:16:31
HDA	Diesel	1001	78,77	16.08.2013 09:17:31
HDA	Diesel	1001	68,28	17.08.2013 01:13:31
HDA	Diesel	1003	140,08	17.08.2013 09:26:31
HDA	Diesel	1003	56,35	18.08.2013 06:09:31
HDA	Diesel	1001	132,71	19.08.2013 04:14:31
HDA	Diesel	1003	162,60	20.08.2013 07:13:31
			996,70 Ltr	

7.3 Data import

When retrieving data via the COM port or a modem, you can transmit messages to the fuel terminal or retrieve tank level information.



7.3.1 Data import

See chapter 6.1.3

The log tab shows when fueling data was retrieved or imported. The log shows the 100 most recent data imports, listed in date order. The *Auto import* column shows whether data was imported manually (---) or automatically (+++).

Download data		Import data		Log		
Fuel terminal	Interface	Date	Count	Autoimport	Status	
▶ HDA	com6	20.08.2013 15:25:19	27	---	Ok	
DEMO-HDA	demo	20.08.2013 09:41:31	138	---	Ok	

7.3.2 Messages (not in the Eco version)

It is possible to send messages for drivers and vehicles to the fuel terminal. After a message has been created and saved, it will be sent to the dispenser the next time that fueling data is retrieved.

If the message is restricted to a particular driver or vehicle, it will be shown to him/her, accompanied by an audio signal, after he/she has entered his/her PIN or transponder ID. If the same driver later enters his/her PIN/transponder ID into the dispenser again, the message will no longer be displayed.

If sending a message for all drivers or vehicles, it will be shown whenever someone enters their PIN/transponder ID. To delete a message, save a blank message, which will then be sent to the fuel terminal when data is next imported.

If a message has not yet been sent, the date when it was saved is shown in red. Messages that have been sent are shown in green.

Tankautomat	HDA		
	<input type="checkbox"/> to all	Message text	Status
Vehicle	0001 - 1	Test	27.03.2013
Driver			
Save		Delete	

 **Note: Not all fuel terminals support the message display.**

7.3.3 External fueling (not in the Eco version)

Fueling that was not carried out using your own dispensers can be retrospectively added here. You can perform a separate analysis of this external fueling. The dates of this external fueling are taken into account when calculating the average fuel consumption of vehicles.

Tankautomat	HDA	Show external fueling
Product	Diesel	from 01.03.2013
Vehicle	0001 - 1	up to 27.03.2013
Driver		
Order number	External 222	
Odometer	125080 km	
Fuelling quantity	355,25 Ltr	
Delivery date	27.03.2013 12:00:00	Edit
Save		Delete

You can edit or delete external fueling that has been entered into the program. To show external fueling data, you need to specify a data range.

7.3.4 Tank (only Tank parameters in the Eco version)

Depending on the design of the fuel terminal, it may support a tank level display. Whenever fueling data is retrieved, the program also requests the current tank level and displays it in the **Tank level** tab.

If the fuel terminal doesn't have a tank level probe, it may be possible to activate a calculated tank level display. See the terminal's operating instructions for more information. In this case, the current tank level is calculated on the basis of the amounts dispensed plus tank filling data (positive or negative). Tank filling information that is entered into the program for a terminal whose levels are calculated in this way is also transmitted when retrieving fueling data.

The screenshot shows the 'Tank level' interface with three tabs: 'Tank parameters', 'Calculated', and 'Assignment'. The 'Calculated' tab is active. It features a 'Fuel terminal' dropdown menu set to 'HDA' and a checkbox for 'all fuel terminals'. Below this is a table with the following data:

Fuel terminal	Product name	Volume	Date
HDA	Diesel	17500	20.08.2013 15:25:24

To the right of the table is a tank level gauge showing 35% full, with a maximum volume of 50000 Ltr. Below the gauge are checkboxes for 'with column heading' (checked) and a 'Delimiter' dropdown set to ';'. At the bottom, there are 'Data export' and 'Delete' buttons. The 'Tank filling (calculated)' section includes a text input for '0 Liter', a 'Save' button, and date selectors for 'from 01.08.2013' and 'up to 20.08.2013'. A small '1' is visible in the bottom right corner of the interface.

Use the date selectors to specify the period for which the tank level display should be shown.

All tank levels shown can be saved as CSV or TXT files for further editing. Click *Data export* to do so. The separator symbol for the export can be chosen from a list.

Clicking *Delete* will permanently remove all tank levels shown from the system. You will be asked to confirm that this is really what you intended to do.

Select one of the display levels shown to display a graphic representation. The tank's maximum capacity is also shown.

Parameters for a particular fuel terminal can be entered or amended in the *Tank parameters* tab. The type of information that can be entered depends on the type of fuel terminal. If the tank has a tank level probe fitted, you can specify its parameters here.



Tip: If tank stock control is active, fueling will be declined once the tank has reached its minimum volume. This also applies for tanks whose levels have been calculated by the program.

Tank level	Tank parameters	Calculated	Assignment
Fuel terminal	HDA	ECO	
Product displayname	1 Diesel		
Sensor parameters			
Sensor type	200 mbar		
Offset	14 mm		
Density	958 g/Liter		
Stock control			
	<input checked="" type="checkbox"/> Yes		
Minimum volume	0 Ltr		
Tank dimensions (mm)			
Tank shape	Cylinder vertical	1500	Height
Max volume (calculated)	50000 Ltr		
<input type="button" value="Save"/>			
<input type="button" value="Delete"/>			

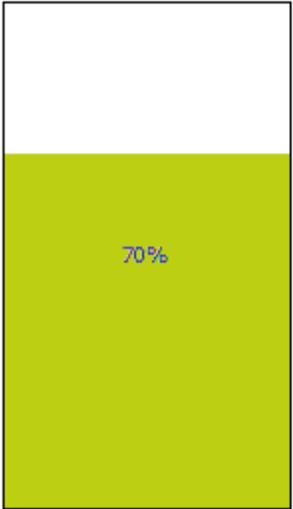
To transfer saved tank parameters to the fuel terminal, select the *Tank parameters* box under *Master data > HDA > Data transfer*. If the fuel terminal doesn't support tanks, tanks that were accidentally set up are automatically deleted during the transfer process.

The HD Manager 8 program allows you to set up calculated tanks. In the **Assignment** menu, specify a tank ID, a maximum volume and the starting volume at a specified date and time. Once the tank has been saved, individual delivery points can be assigned to it. Click *Remove* to remove delivery points that were assigned in error.

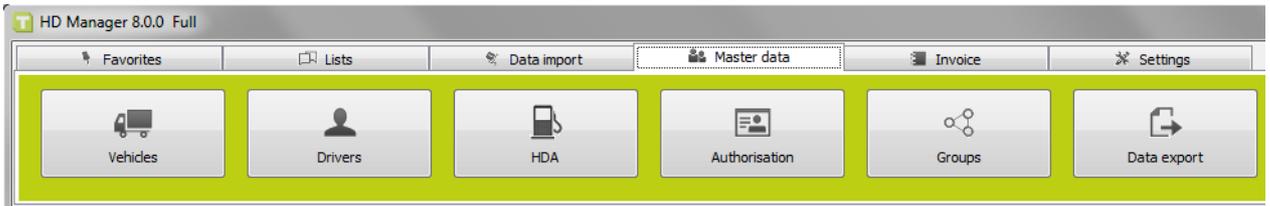
Tank level	Tank parameters	Calculated	Assignment																				
Create tank (calculated)																							
Identifier	<input type="text" value="Diesel Tank"/>	<input type="button" value="New"/>																					
Max volume	<input type="text" value="50000"/> Liter																						
Initial volume	<input type="text" value="35500"/> Liter																						
measured at time	<input type="text" value="15.03.2013"/> <input type="button" value="📅"/> <input type="text" value="14:12:24"/> <input type="button" value="🕒"/>	<input type="button" value="OK"/>																					
Tank	<input type="text" value="Diesel Tank"/> ▼	<input type="button" value="Delete"/>																					
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Tankautomat</th> <th>Delivery point</th> <th>Product name</th> <th>Display name</th> </tr> </thead> <tbody> <tr> <td>▶ HDA</td> <td>1</td> <td>Diesel</td> <td>Diesel</td> </tr> </tbody> </table>			Tankautomat	Delivery point	Product name	Display name	▶ HDA	1	Diesel	Diesel	<input type="button" value="Remove"/>												
Tankautomat	Delivery point	Product name	Display name																				
▶ HDA	1	Diesel	Diesel																				
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Tankautomat</th> <th>Delivery point</th> <th>Product name</th> <th>Display name</th> </tr> </thead> <tbody> <tr> <td>▶ HDA</td> <td>2</td> <td>Diesel</td> <td>Diesel</td> </tr> <tr> <td>HDA</td> <td>3</td> <td>Diesel</td> <td>Diesel</td> </tr> <tr> <td>HDA</td> <td>4</td> <td>Diesel</td> <td>Diesel</td> </tr> <tr> <td>HDA</td> <td>5</td> <td>Diesel</td> <td>Diesel</td> </tr> </tbody> </table>			Tankautomat	Delivery point	Product name	Display name	▶ HDA	2	Diesel	Diesel	HDA	3	Diesel	Diesel	HDA	4	Diesel	Diesel	HDA	5	Diesel	Diesel	<input type="button" value="Assign"/>
Tankautomat	Delivery point	Product name	Display name																				
▶ HDA	2	Diesel	Diesel																				
HDA	3	Diesel	Diesel																				
HDA	4	Diesel	Diesel																				
HDA	5	Diesel	Diesel																				

The **Calculated** tab shows the calculated levels of the tanks that you set up. This calculation is based on the fueling data. Details of filling and emptying the tanks must be recorded, along with the date and time. Each alteration is stored in the database and displayed in the table shown. Click *Delete* to remove erroneous entries from the program.

The current level of the tank selected is shown as a calculated value and as a graphic.

Tank level	Tank parameters	Calculated	Assignment				
<p>Tank <input type="text" value="Diesel Tank"/></p> <p>Filling / Emptying <input type="text" value="-145"/></p> <p>at <input type="text" value="27.03.2013"/> <input type="text" value="14:14:35"/></p> <p><input type="button" value="Save"/></p> <p>Current tank level 35145 Ltr</p> <table border="1"><thead><tr><th>Filling / Emptying</th><th>Date</th></tr></thead><tbody><tr><td>▶</td><td></td></tr></tbody></table> <p><input type="button" value="Delete"/></p>				Filling / Emptying	Date	▶	
Filling / Emptying	Date						
▶							
							
		Max volume 50000 Ltr					

7.4 Master data



7.4.1 Drivers/Vehicles

Choose the relevant menu item to edit a vehicle or driver's master data. This could be data that has already been set up, or downloaded from the fuel terminal.

Every vehicle can have a fueling limit applied to it. You can also specify a limit in miles/kilometers in the relevant input window. Further fueling must occur before this mileage limit is reached. A maximum time for each fueling can be set individually for each vehicle. You can specify whether a vehicle should work on the basis of mileage or operating hours.

When setting up a new driver or vehicle, you must assign a *code* or transponder ID (using an optional USB transponder reading device on your PC). It is also possible to request a PIN (dual ID system).

Depending on the fuel terminal, not all options may be supported. For further information, please see the respective fuel terminal's operating instructions.

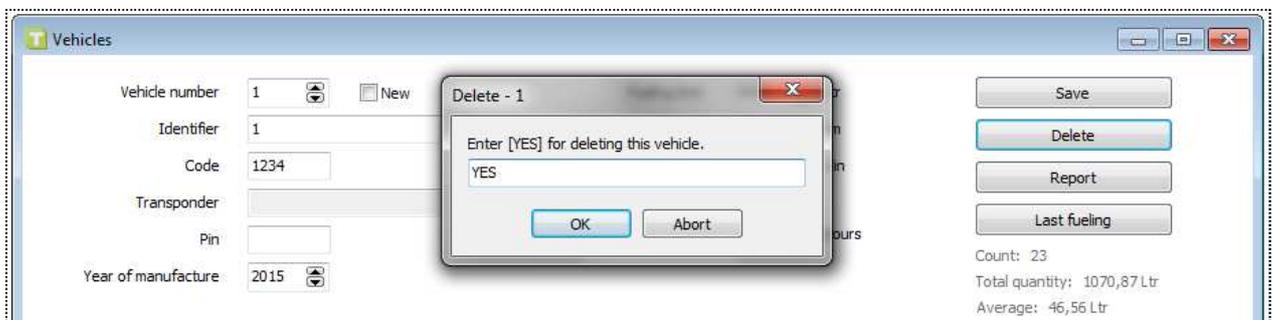
An *Identifier* can be assigned to all drivers and vehicles. This makes reading the lists and analyses easier.

Save

Drivers or vehicles can only be saved if they have a code or transponder ID.

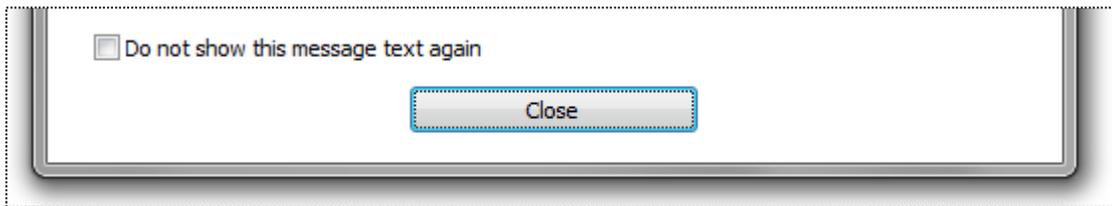
Delete

When attempting to delete a driver or a vehicle, a confirmation prompt will appear.



Deleting a driver or vehicle simply changes its status to "Deleted". You can click on the "Authorization" tab (see chapter 7.4.3) to view the current status of a driver/vehicle.

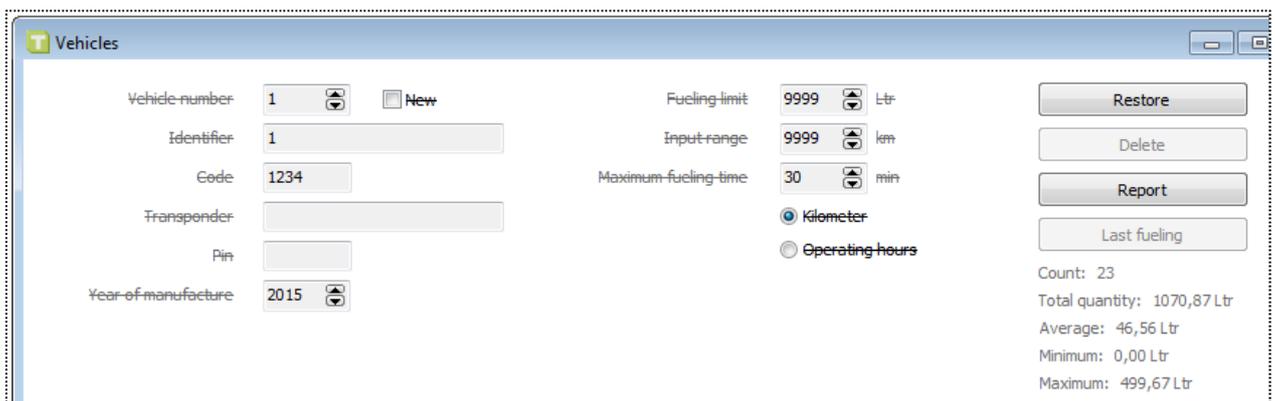
The notice dialog can be hidden by checking the corresponding box. Once the dialog is hidden, it will only be displayed again after 30 days have passed. Once this happens, it can be deactivated again.



Deleted drivers/vehicles will need to be transferred to existing terminals so that no dispensations can be made for them at these terminals. To transfer the data, click on the tab "Master data > HDA > Data transfer", or "Master data > Export" if you are performing the transfer via a data key or USB port.

Drivers/vehicles can be permanently deleted from the program under the tab "Settings > Database > Delete".

When a driver/vehicle is deleted, the corresponding display texts will be crossed out and the input fields grayed out. You can click on the "Restore" button to restore a deleted entry at any time.



Report

This button enables you to create a report, in list form, of all existing drivers or vehicles.

Last fueling (not in the Eco version)

This report shows details of the respective driver or vehicle's most recent fueling.

If no code or transponder ID is shown for a driver or vehicle, this is because the relevant master data has not yet been retrieved from the fuel terminal. To do this, go to *Master data > HDA > Data transfer > Driver/Vehicle*.



Drivers and vehicles without a PIN or transponder ID are not transferred when *sending* the master data to the fuel terminal. Similarly, this data is also not included when exporting the master data.

Depending on which version of the software you are using, not all options are available. The example shows data for a vehicle.

Eco version

Vehicle number	1001	Fueling limit	999 Ltr	Save
Identifier	1001	Input range	1000 km	Delete
Code	123	Maximum fueling time	30 min	Report
Transponder			<input checked="" type="radio"/> Kilometer	
Pin			<input type="radio"/> Operating hours	
Year of manufacture	2014			

Full and Server versions

Vehicle number	1001	Fueling limit	999 Ltr	Save
Identifier	1001	Input range	1000 km	Delete
Code	123	Maximum fueling time	30 min	Report
Transponder			<input checked="" type="radio"/> Kilometer	Last fueling
Pin			<input type="radio"/> Operating hours	
Year of manufacture	2014			

Count: 37
Total quantity: 4084,06 Ltr
Average: 110,38 Ltr
Minimum: 40,41 Ltr
Maximum: 198,53 Ltr

In the full version, when an entry is selected, a short fueling summary is shown. This contains details of the number of fuelling's, the total amount, the average amount and the minimum and maximum amounts.

7.4.1.1 Set odometer query to 0

The *New* checkbox, to the right of the vehicle number, is only shown if a fuel terminal with firmware version 4.270 or above is available in the HD Manager program, and if it uses a (W)LAN connection.

By checking this box and saving, it is possible to freely enter odometer information at the fuel terminal when next refuelling.

Once a new data record for this vehicle has been loaded into HD Manager, the *New* field is reset.

Vehicle number	1	<input type="checkbox"/> New
Identifier	1	
Code	123	



Setting to *New* can be useful when, for example, a vehicle is replaced by a new one, and the user must enter initial mileage for this vehicle at the fuelling terminal.

7.4.2 HDA

See chapter 6.1.1 Set up fuel terminal and connection.

Fuel management system

Depending on the fuel terminal, there are a number of settings that you can make. Please see the operating instructions for your fuel terminal to see which functions your terminal supports.

Vehicle/Driver: Select this box to specify that a code or transponder ID should be entered before fueling can take place. The text that is displayed on the terminal for this purpose can be edited here (*).

Order number: Select this box to enable entering an order number when fueling. Output lists are then linked to individual order numbers. The text that is displayed on the terminal for this purpose can be edited here (*).

Mileage: The vehicle's mileage can be entered before fueling begins (*).

The screenshot shows a configuration window with the following elements:

- Vehicle:** FAHRZEUG
- Driver:** FAHRER
- Order No:** AUFTRAG
- Odometer:** KM-STAND
- Forced Odometer inquiry
- Display previous Odometer
- Automat lock
- Shut-off time
- from 00:00 (dropdown)
- up to 00:00 (dropdown)
- Save button
- New button
- Delete button

You can additionally specify whether entering mileage is mandatory, and whether the last mileage entered for the same vehicle is shown, so as to aid the user.

On latest generation fuelling terminals, with firmware version 4.270 or above, activating forced odometer queries enables the mileage to be checked by the EDP system. This works by synchronizing the most recent odometer entry with the fuelling tank when the vehicle is identified over (W)LAN. The most recent entry refers to the last entry that was saved in the program's database. This may not necessarily be the entry that has the most recent submission date.

The screenshot shows a configuration window with the following elements:

- Odometer
- Forced odometer query
- EDP release for delivery
- mandatory
- Display previous odometer

If the EDP release for delivery box is not checked, the fuelling terminal attempts to request odometer details from the HD Manager program via the local network. If there is no answer to this request, it is still possible to record an entry. The fuelling tank then compares the newly entered odometer reading with the vehicle's most recently saved mileage to check plausibility. See Chapter 7.4.1 'Kilometre window'.

If this box is ticked, if the request for mileage details fails, it is not possible to record an entry.



For the transmission of the latest odometer information, the HD Manager program must be permanently running on the network, and should be available via (W)LAN.

A fuel terminal can generally be locked and or released, controlling whether fuel can be dispensed or not. You can also specify a shut-off time, i.e. for automatic data retrieval. During this time, fueling is not possible. If the terminal is locked, all attached delivery points are locked (*).



Tip: When the shut-off time begins, any fueling that is already in progress will not be interrupted.

If the terminal is able to print receipts, you can specify text for the printout (*).

Company name (print-out)	HORN GmbH&Co.KG
--------------------------	-----------------

Click *Save* to save your settings and/or alterations.

Click *New* to set up another fuel terminal. Clicking on *Delete* and then confirming will result in the fuel terminal being permanently removed from the database. **When a terminal is deleted, all fueling data associated with it is similarly deleted.** Details of drivers and vehicles that have been retrieved remain in the program.

(*) See the operating instructions for your respective fuel terminal.

Delivery point

If a terminal has several delivery points connected to it, a fueling limit, time-out and maximum fueling time can be specified for each individual delivery point. Every delivery point can have a product, a display name on the terminal and an internal product name assigned to it. Delivery points can be individually locked or unlocked.

Click *Save* to save your alterations.

Delivery point	1	
Fuelling limit	9999	Ltr
Fuelling time-out	99	
Max. Fueling time	99	
Product displayname	1	Diesel
Product name	Diesel	
<input type="checkbox"/> Lock delivery point		
<input type="button" value="Save"/>		

To add an internal product name for a delivery point, click on the *New* button. Once it has been saved, it appears in the delivery point selection list, so that you are able to select it. This product name is to identify a particular product, and so should be unique. This display name is used in lists and also for invoicing purposes.

Product name	Display name
Diesel	Diesel

Product name: Save

Display name: New

Delete

Data transfer

If you are transferring data via serial cable or modem, you can specify what data is transferred between the fuel terminal and the HD Manager 8 program. After the first retrieval of data, the program reads the fuel terminal's firmware version and saves it to the database. The firmware version tells the program what data is not supported by the fuel terminal. This data is then excluded from the transfer process.

Driver / Vehicle transfer selected only

Fueling options

Tank parameter

Product name

Set Date / Time

Download data Upload data

HDA

Communication: COM1

Phone number:

Abort

The fuel terminal selected for data transfer is always shown on the display. Click *Abort* to cancel a data transfer that is running. When sending master data, a confirmation screen will ask if you really want to proceed, as data on the fuel terminal could be overwritten.

- Driver/Vehicle: Details of all drivers and vehicles stored in the program are sent to the fuel terminal, where they are saved or updated as necessary. When

retrieving data, data that is already stored in the program is updated, and new data is saved.

- Fueling options: The fueling options stored in the program are transferred to the fuel terminal. If you attempt to set up delivery points that the fuel terminal doesn't support, these are automatically deleted from the database. When retrieving data, the program reads the terminal's options and then displays them.
- Tank parameters: If the terminal supports tanks, tank parameters can be sent to the terminal, or read from it.
- Product name: If the fuel terminal supports them, product names can be sent to, or read from, the terminal.
- Set Date / Time: When this box is selected, the current system time is transferred to the fuel terminal and inherited from it.

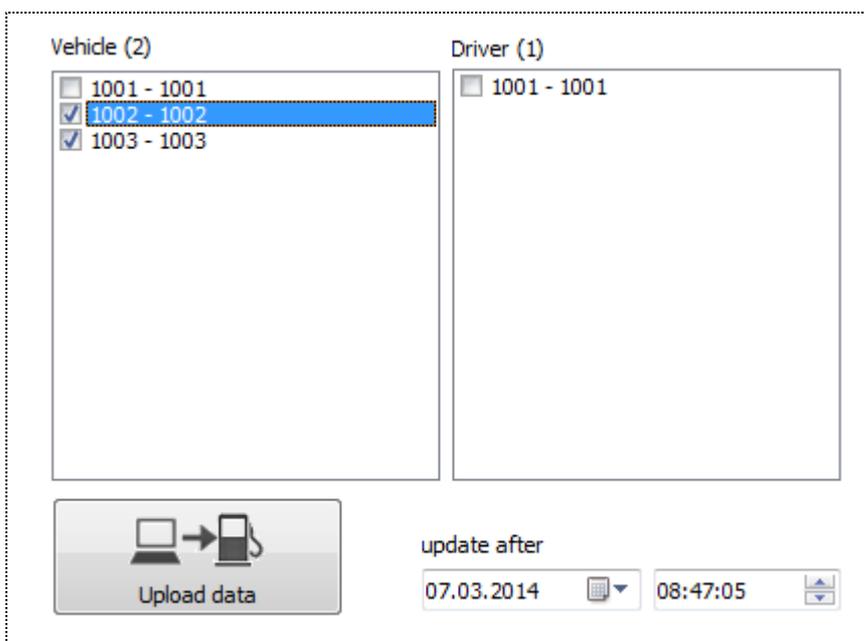
Transfer only selected drivers and vehicles

If the "*Transfer selected only*" option to the right of the "Driver / Vehicle" selection fields is activated, individual drivers and vehicles who possess a **code** or **transponder** number can be selected and transferred to the desired fuel terminal. This selection can be done via the date and time field displayed. In addition, the entries can also be selected manually.

 **If the date is changed, entries that have been selected manually will be ignored and reset.**

Example:

After Mar 07, 2014 at 08:47:05, changes were made for vehicles 1002 and 1003, or these vehicles were added. The date of the last change is saved in the program database for each driver and vehicle, which allows the corresponding last changes to be selected and displayed here.



The screenshot shows a software interface with two main selection areas: "Vehicle (2)" and "Driver (1)".

- Vehicle (2):** A list box containing three entries: "1001 - 1001" (unchecked), "1002 - 1002" (checked and highlighted in blue), and "1003 - 1003" (checked).
- Driver (1):** A list box containing one entry: "1001 - 1001" (unchecked).

Below the selection areas is a button labeled "Upload data" with a computer and fuel pump icon. To the right of the button is an "update after" field with a date "07.03.2014" and a time "08:47:05".

The data transfer is started by pressing the *Upload data* button under the selection. A maximum of the first 1500 selected driver and/or vehicle entries will be transferred. If all entries are to be transferred, the *Driver / Vehicle* transfer option is available in the left of the display.



Tip: No data can be transferred when fueling is in progress.

Products

If the fuel terminal supports product names for individual delivery points, these can be edited here. Individual products can be assigned to delivery points via the Delivery points tab. Select a product number, edit its name and then save. Product names are sent to the fuel terminals via the *Data transfer* tab.

Product name at the tankautomat

Product number 1

Product name Diesel

Save

Additional function

The additional function allows you to change the communication PIN used when transferring data. Enter the new PIN into the relevant field and click *Send* to transfer it to the fuel terminal. The PIN can only be changed once the previous PIN has been entered and saved in the *Fuel terminal* tab.

Click *Delete* to delete all driver and vehicle data from the fuel terminal. To do this on older fuel terminals, a data record needs to be transferred for every possible driver and vehicle (maximum 1000 data records).



Not all fuel terminals support changing the communication PIN.

Additional fuel terminal functions

HDA

Communication: COM1

Phone number:

Change current fuel terminal communication pin

New communication pin

 Upload data

Delete all driver and vehicle data on fuel terminal

7.4.2.1 Automatic data retrieval

It is possible to set up automatic data retrieval for every fuel terminal that is connected via serial cable or modem. Retrieval can occur daily or only on certain days of the week. If more than one terminal is to be called up at the same time, retrieval occurs consecutively, retrieval for each terminal beginning after retrieval from the previous terminal has ended. There will be a maximum of three attempts to carry out data retrieval. If data retrieval fails, there will be no more attempts until the specified call up time is next reached.

Activate data call up interval

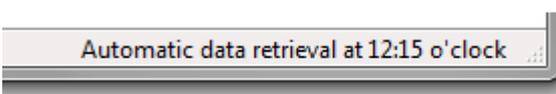
Weekday

Time

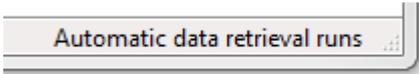
12:15:00 Daily

23:15:00 Daily

If you select a fuel terminal, the call up times saved in the system are shown in a list. Click *Delete* and then confirm to remove individual call up times. When automatic data retrieval is activated, it is shown in the status bar, along with the time of the next call up. The time refers to the current day.



If no further automatic call ups are scheduled for the current day, the status bar shows that automatic data retrieval is still running.



Automatic data retrieval is enabled or disabled via the relevant selection box.

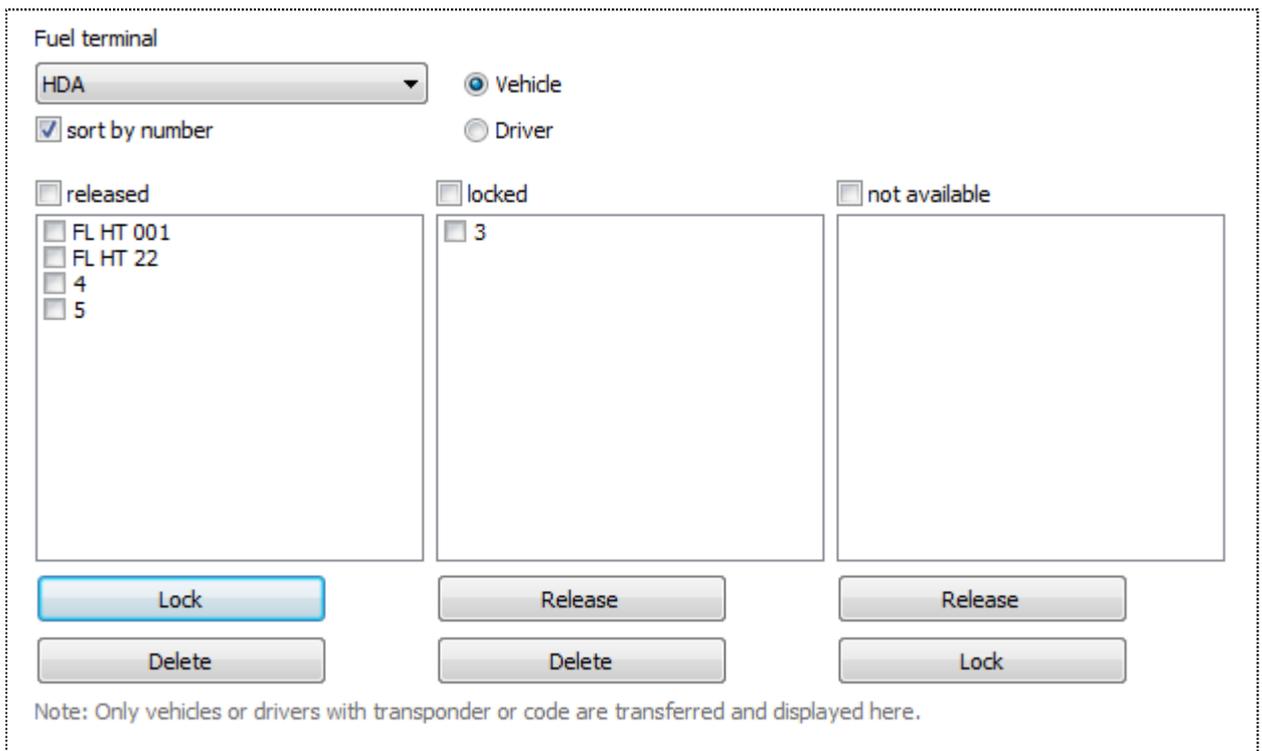
7.4.3 Authorization



Only drivers and vehicles with valid PINs or transponder IDs are shown

After a fuel terminal has been set up, the program initially assigns all drivers and vehicles to it. When sending driver and vehicle master data to the terminal, data for all drivers and vehicles is transferred. If an entry does not already exist on the terminal, it is created.

This screen allows you to set the status of every driver and vehicle for a particular fuel terminal. Entries can be selected and specified as released, locked or deleted for a particular fuel terminal. This assignment is performed using the corresponding buttons.



Fuel terminal
HDA

sort by number

Vehicle
 Driver

<input type="checkbox"/> released	<input type="checkbox"/> locked	<input type="checkbox"/> not available
<input type="checkbox"/> FL HT 001 <input type="checkbox"/> FL HT 22 <input type="checkbox"/> 4 <input type="checkbox"/> 5	<input type="checkbox"/> 3	
<input type="button" value="Lock"/> <input type="button" value="Delete"/>	<input type="button" value="Release"/> <input type="button" value="Delete"/>	<input type="button" value="Release"/> <input type="button" value="Lock"/>

Note: Only vehicles or drivers with transponder or code are transferred and displayed here.

Any alterations to a fuel terminal must then be sent by selecting the *Driver / Vehicle* box under *Master data > HDA > Data transfer*.

If the data exchange is via DataKey or USB flash drive, the master data must be provided for the terminal via the export function. See chapter 7.4.5.

Fuel terminal

HDA Vehicle Driver

Sorted by number

released locked not available

1002 1003 1001

Drivers and vehicles that have been deleted will be displayed as being inactive. The main driver and vehicle data will need to be transferred to the existing fuel terminals such that they are also deleted from these devices. Activation can only be performed when a deleted driver or vehicle has been restored.

7.4.4 Groups (not in the Eco version)

This screen enables you to set up, rename and delete groups. To delete a group, you will be asked to confirm that this is what you want to do.

Group members Generate

Group name

Group list

Drivers and vehicles can only be assigned to one group. To assign drivers or vehicles to a group, simply select the box next to its name. The number of members in the selected group is shown underneath the selection list. Entries that are not marked are not assigned to any groups.

Group members Generate

Vehicle	Driver	Group list
<input checked="" type="checkbox"/> 0001 - FL HT 001	<input checked="" type="checkbox"/> 0001 - 1	<input type="text" value="Field Service"/>
<input checked="" type="checkbox"/> 0002 - FL HT 22	<input type="checkbox"/> 0002 - 2	
<input type="checkbox"/> 0003 - 3	<input checked="" type="checkbox"/> 0003 - 3	
<input type="checkbox"/> 0004 - 4	<input checked="" type="checkbox"/> 0004 - 4	
<input type="checkbox"/> 0005 - 5	<input checked="" type="checkbox"/> 0005 - 5	
<input type="checkbox"/> 0006 - 6	<input checked="" type="checkbox"/> 0006 - 6	
<input checked="" type="checkbox"/> 0007 - 7	<input checked="" type="checkbox"/> 0007 - 7	
<input checked="" type="checkbox"/> 0008 - 8	<input type="checkbox"/> 0008 - 8	
<input checked="" type="checkbox"/> 0009 - 9	<input type="checkbox"/> 0009 - 9	
<input checked="" type="checkbox"/> 0010 - 10	<input type="checkbox"/> 0010 - 10	
<input checked="" type="checkbox"/> 0011 - 11	<input type="checkbox"/> 0011 - 11	
<input checked="" type="checkbox"/> 0012 - 12	<input type="checkbox"/> 0012 - 12	
<input checked="" type="checkbox"/> 0013 - 13	<input type="checkbox"/> 0013 - 13	
<input type="checkbox"/> 0014 - 14	<input type="checkbox"/> 0014 - 14	
<input type="checkbox"/> 0015 - 15	<input type="checkbox"/> 0015 - 15	
<input type="checkbox"/> 0016 - 16	<input type="checkbox"/> 0016 - 16	
<input type="checkbox"/> 0017 - 17	<input type="checkbox"/> 0017 - 17	

9 6

You can now select a group via the *Lists > Analyses* or *Lists > Data export* tabs. The corresponding members are automatically selected.

Groups are mandatory for the invoicing module. See chapter 7.5.3.

7.4.5 Exporting

To export data for drivers and vehicles that have a valid PIN or transponder ID, select a fuel terminal and export option.

Click on *Data export*. You will then be asked to specify a directory in which to save the file DATAIN.TXT. All data will then be written to this file. The export status will then be shown in the progress bar.

You are then able to read the DATAIN.TXT file directly from the fuel terminal. Drivers and vehicles are saved or updated as appropriate. Depending on the design of the fuel terminal, the DATAIN.TXT file can either be read automatically or by manual input at the fuel terminal. Please see the fuel terminal's operating instructions for further information.

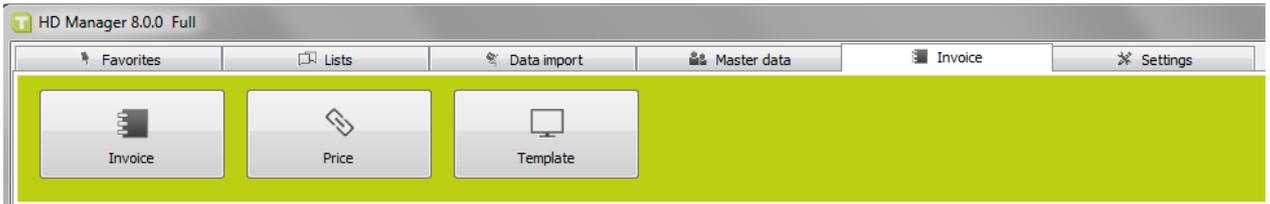
The following export options are possible (see also chapter 8.1.3):

- **HDA Datakey:** Select this if you will be transferring data with a DataKey.
- **HDA eco:** For fuel terminals with firmware versions 4111-4229

- **HDA eco 4.230:** For fuel terminals with firmware version 4230 or above
- **HDA-5 eco / HDA pro:** For HDA-5 / Super Box fuel terminals

7.5 Invoice (not in the Eco version)

Invoices can only be created for groups that contain at least one **vehicle**. See chapter 7.4.4.



7.5.1 Invoice

Invoices can only be created for vehicles. After you have selected a group, any discount that you have granted is shown next to the group selection menu. Each invoice can have an individual invoice number assigned to it. Invoices are created for the selected date range, with or without sales tax.

If Listing is selected, fueling details for each vehicle are listed separately, with totals per vehicle. The total amount then follows on the next page.

Group name	Field service	Discount: 5,30 %	
Invoice number	RE 20030401 / FF	<input type="checkbox"/> TAX	
from	01.12.2014	<input checked="" type="checkbox"/> Listing	
up to	08.12.2014	<input checked="" type="checkbox"/> Continuously	
<input type="button" value="Generate"/>			
Group name	Invoice number	from	up to
▶			

Once an invoice has been created, its data (invoice number and time period) are stored in the program's database. You can display or re-create an invoice by selecting the invoice data in the table. However, it is not possible to delete invoice data. The screen shows all invoicing data created up to the date that you selected.

Group name: Field service Discount: 5,30 %

Invoice number: RE 20030401 / FF +

from: 01.12.2014

up to: 08.12.2014

TAX

Listing

Continuously

Generate

Group name	Invoice number	from	up to
▶ Field service	RE 20030401 / FF	01.12.2014	08.12.2014

Click on the "+" button to increment an existing invoice number (where possible).

Invoice number: RE 20030401 / FF +

from: 01.12.2014

Example: "RE 20030401 / FF" will become "RE 20030402 / FF"

Invoice number: RE 20030402 / FF +

from: 01.12.2014

If "Listing" is selected as the type of invoice, a separate page will be generated for each vehicle. You can select the "Continuously" option to prevent this.

An example of how an invoice could look is shown below.

HORN Tecalemit

Munketoft 42
24937 Flensburg
+49 461 8696-26
+49 461 8696-66

Max Mustermann
66 Main Road
Canterbury
CT 08 L850
England

INVOICE

Invoicing: 01.04.2013 - 12.04.2013
Customer no: FS 123 / 456
Invoice no: RE 04/13
Date: 12.04.2013

Tankautomat	Vehicle	Driver	Product name	Date	Liter	Price	Amount
HDA	1003	1001	Diesel	12.04.2013 05:18:43	144,74	1,280	185,27
HDA	1002	1001	Diesel	11.04.2013 07:03:43	136,85	1,280	175,17
HDA	1002	1001	Diesel	11.04.2013 03:19:43	150,96	1,280	193,23
HDA	1003	1001	Diesel	10.04.2013 17:27:43	138,78	1,280	177,64
HDA	1001	1001	Diesel	10.04.2013 13:16:43	136,71	1,280	174,99
HDA	1001	1001	Diesel	10.04.2013 06:04:43	58,78	1,280	75,24
HDA	1001	1001	Diesel	09.04.2013 03:04:43	96,21	1,280	123,15
HDA	1003	1001	Diesel	08.04.2013 22:00:43	112,10	1,280	143,49
HDA	1003	1001	Diesel	08.04.2013 15:05:43	198,11	1,280	253,58
HDA	1002	1001	Diesel	08.04.2013 06:05:43	104,23	1,280	133,41
HDA	1001	1001	Diesel	07.04.2013 05:59:43	42,85	1,280	54,85
HDA	1003	1001	Diesel	07.04.2013 05:01:43	96,98	1,280	124,13
HDA	1002	1001	Diesel	07.04.2013 03:10:43	120,03	1,280	153,64
HDA	1001	1001	Diesel	06.04.2013 04:17:43	125,55	1,250	156,94
HDA	1001	1001	Diesel	05.04.2013 04:18:43	80,35	1,250	100,44
HDA	1001	1001	Diesel	04.04.2013 17:48:43	132,85	1,250	166,06
HDA	1002	1001	Diesel	04.04.2013 01:24:43	136,41	1,250	170,51
HDA	1001	1001	Diesel	04.04.2013 00:04:43	140,36	1,250	175,45
HDA	1003	1001	Diesel	03.04.2013 10:20:43	56,42	1,250	70,52
HDA	1003	1001	Diesel	03.04.2013 05:05:43	138,32	1,250	172,90
HDA	1002	1001	Diesel	02.04.2013 07:08:43	68,10	1,250	85,12
HDA	1003	1001	Diesel	01.04.2013 07:10:43	165,18	1,250	206,47
HDA	1003	1001	Diesel	01.04.2013 04:31:43	80,22	1,250	100,28
HDA	1003	1001	Diesel	01.04.2013 03:19:43	125,99	1,250	157,49
Total					2787,08		3529,97 €
Discount 5,50 %							194,15 €
TAX 19,0 %							633,61 €
Invoice amount							1969,63 €

Bankleitzahl: 215 400 60
Kontonummer: 2476000

Page: 1 / 1

7.5.2 Prices

If *Show all* is selected, prices for all existing products within the selected date range are shown. If this option is not selected, only prices for the currently selected product are shown. To add a new price for a product, first select it. Add the new price, plus the date and time from which it applies. Click OK. Once it has been saved, the new price appears in the table below, provided that it is within the selected date range.

If a new price is entered for a date and time that already exists in the system, the previous price will be replaced by the new one.

➡ The most recent price applies for future fuelling's. The price is valid until a new price is specified.

The screenshot shows a software interface for entering a new price for a product. On the left, there is a 'Product name' dropdown menu set to 'Diesel', a 'Show all' checkbox, and two date pickers for 'from' (01.03.2013) and 'up to' (05.04.2013). Below these is a 'Delete the selected price' section with a 'Delete' button. On the right, the 'Enter new price' section shows 'Product name' as 'Diesel', 'valid from' as '01.03.2013', 'at' as '12:00:00', and 'Price' as '1,250'. An 'OK' button is highlighted with a red dashed border. At the bottom, a table displays the current price entry:

Product name	Display name	Price	valid from
▶ Diesel	Diesel	1,250	01.03.2013 12:00:00

To delete a price, select it in the table, click *Delete* and then confirm.

7.5.3 Recipient/Sender information

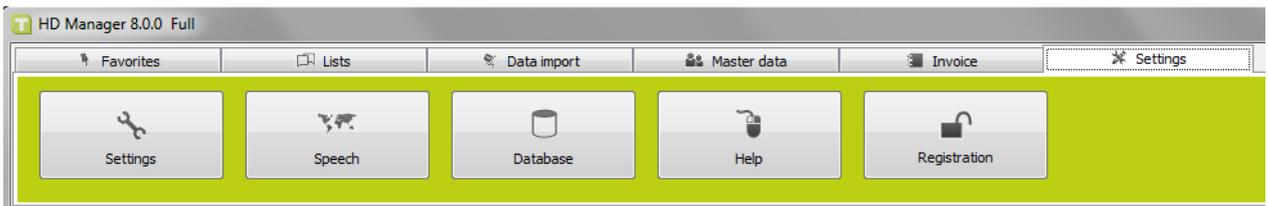
This screen is where you edit information about the sender and recipient. Select a recipient (a group) to specify various pieces of information. Each recipient can have a different discount rate applied. After saving your entries, they are inherited by the respective groups during the invoicing process.

Under sender, you can specify the rate of sales tax and the currency symbol to be used in your invoices.

Receiver	Sender
Group name: <input type="text" value="Field service"/>	<input type="text" value="HORN Tecalemit"/>
Discount: <input type="text" value="5,5"/> %	<input type="text" value="Munketoft 42"/>
Customer number: <input type="text" value="FS 123 / 456"/>	<input type="text" value="24937 Flensburg"/>
	<input type="text" value="+49 461 8696-26"/>
	<input type="text" value="+49 461 8696-66"/>
Address	
<input type="text" value="Max Mustermann"/>	
<input type="text" value="66 Main Road"/>	
<input type="text" value="Canterbury"/>	
<input type="text" value="CT 08 L850"/>	
<input type="text" value="England"/>	
<input type="button" value="Save"/>	
	Value added tax: <input type="text" value="19"/>
	Currency symbol: <input type="text" value="€"/>
	Invoice headline
	<input type="text" value="INVOICE"/>
	<input type="button" value="Save"/>
Footers	
<input type="text" value="-----"/>	
<input type="text" value="Bankleitzahl: 215 400 60"/>	
<input type="text" value="Kontonummer: 2476000"/>	

7.6 Settings

The settings area enables you to display and alter various functions of the program.



7.6.1 Settings

7.6.1.1 Units

This is where you specify which units of measurement are used for dispensing amounts, distance and length, and how many decimal places to include. Changes are saved automatically.

Units	Password	Directories	Favorites	Miscellaneous
Dispensing unit <input checked="" type="radio"/> Liter <input type="radio"/> US Gallons <input type="radio"/> Imp. Gallons <input type="radio"/> Pint <input type="radio"/> Quarts	Distance unit <input checked="" type="radio"/> Kilometer <input type="radio"/> Miles <input type="radio"/> Yard	Unit of measurement <input checked="" type="radio"/> Millimeter <input type="radio"/> Inches	Decimal places <input type="radio"/> 0 <input type="radio"/> 0.0 <input checked="" type="radio"/> 0.00 <input type="radio"/> 0.000	
<input type="checkbox"/> Enable miles selection for display in the vehicles menu (the fuel terminal must support this input option)				

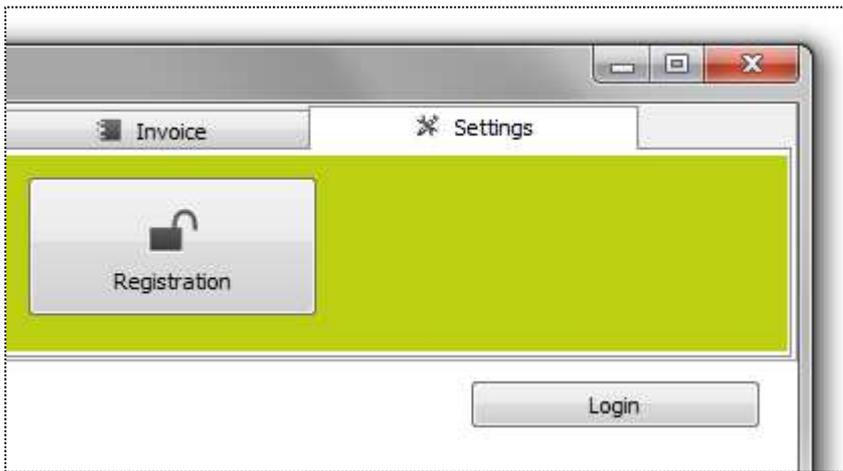
7.6.1.2 Password

In order to secure the program against unauthorized alterations, it is possible to set up a password. The software is supplied with an **empty** password, i.e. there is no password configured.

Once a password has been set and the *Logout* button has been clicked, it is no longer possible to alter driver or vehicle data, or data on the fuel terminal, without first entering the password.

Units	Password	Directories
	Password <input type="text"/> <input type="button" value="Login"/> <input type="button" value="Logout"/>	New password <input type="text"/> Repeat input <input type="text"/> <input type="button" value="Save"/>

When a password is set, a *Login* button appears at the top right of the main screen, to simplify the login process.

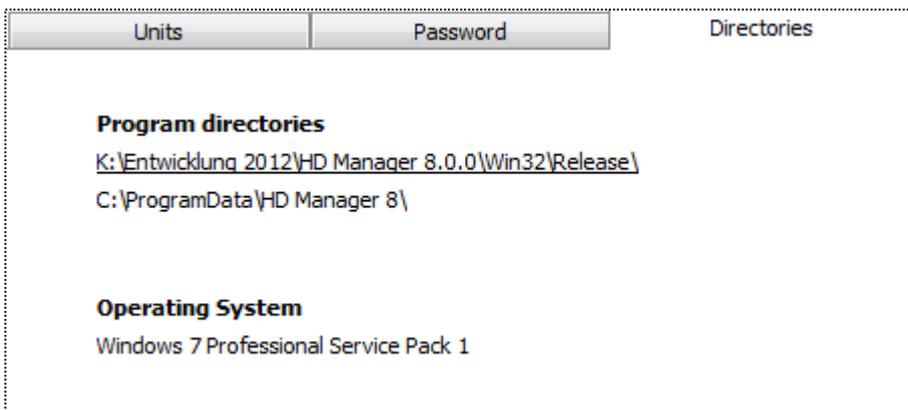


To disable the password protection, enter the current password and click *Login* to confirm. You can now set up a new, blank password. This disables password protection.

 **Tip: Remember your password!**

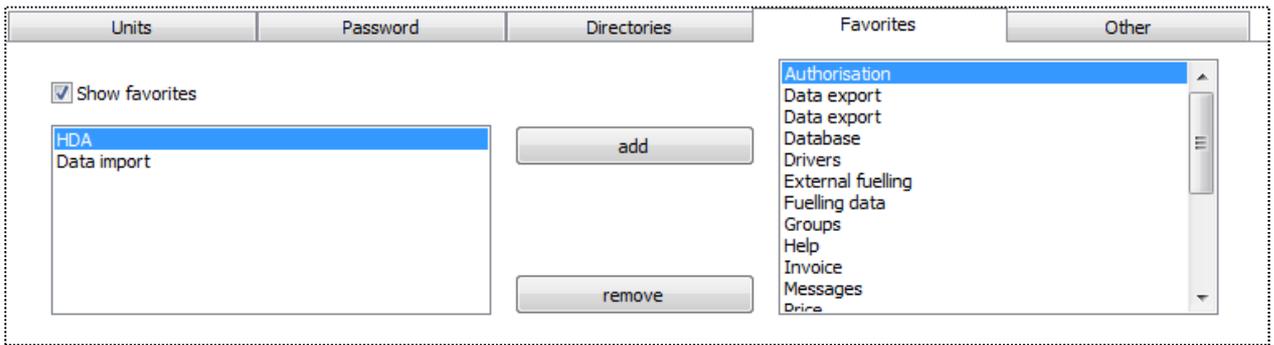
7.6.1.3 Directories

Under Directories, both the installation directory and working directory are shown. Click on a directory path to open it in Windows Explorer and see its contents. Under Operating system, the PC's current operating system is shown. This menu item can prove useful for support purposes.



7.6.1.4 Favorites

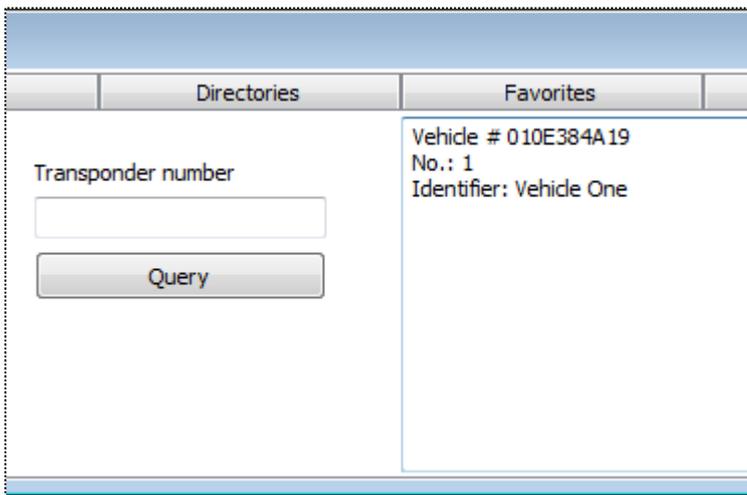
When “Show favorites” is selected, Favorites are shown in the program as the first tab. Up to six favorites can be stored. The order in which they appear depends on the ordering of the individual menu items.



7.6.1.5 Miscellaneous

Transponder number

When the *Transponder number* field is in focus, a transponder can be read using an optional RFID USB reader. To the right, the program shows which driver or vehicle this transponder has been assigned to. If the transponder is unassigned, the display shows: *unavailable*.



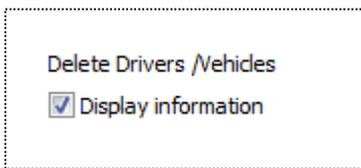
Window position

Whenever a program window is closed, the program remembers its position so that when it is opened again, it is in the same position. Clicking *Reset* under Window position deletes saved window positions.



Deleting entries – Notice text

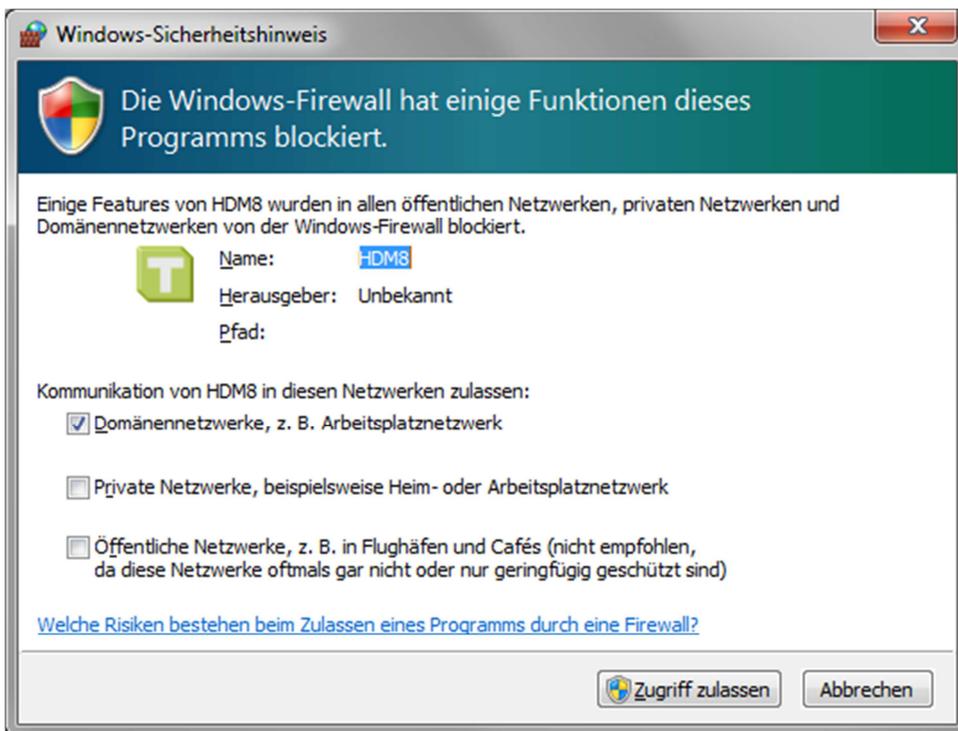
When deleting drivers and vehicles, an additional notice text will be displayed. If the "Do not display again" box was checked previously, this notice text can be reactivated here. The notice dialog will then be displayed again at the next deletion attempt.



TCP / UDP port

Certain HDA fuel terminals can optionally transfer data via intranet using a LAN or WLAN interface (shown as LAN for simplification purposes). If the network address of the fuel terminal is unknown (for example, if it is assigned automatically by a DHCP server), you can activate the UDP broadcast. Fuel terminals that are integrated into the network are then recognized and set up. Their master data (with the exception of driver and vehicle data) is retrieved automatically. Also under this tab, you can reconfigure the communication port, for example, when the default port (54937) is unavailable. See chapter 7.6.1.5.

- ☞ If the port is changed, the communication port on the fuel terminal must also be changed accordingly.
- ☞ If activating the UDP broadcast results in a Windows Firewall warning message, you will need to explicitly allow communications for HD Manager 8. Otherwise, in certain circumstances, it will not be possible to communicate with the fuel terminal.



HDA - (W)LAN / GPRS

Clicking on the HDA - (W)LAN/ GPRS button allows you to generate configuration data for the HDA eco as well as the HDA pro on a PC. The data can be saved in an encrypted format on a USB flash drive with the default name network.dat. Provided that the automatic dispenser supports this, the file can be input via USB, and the parameters will be set accordingly.

The input window for this configuration data is displayed in the foreground of the program, and has to be closed by clicking on the button on the right before you can continue using the HD Manager program.

The data entered will not be saved by the program.

The screenshot shows a configuration window titled "LAN". At the top left, there is a tab icon and the title "LAN". Below the title bar, there are two radio buttons: "LAN" (which is selected) and "WLAN". Underneath, there is a checkbox labeled "Dynamic Host Configuration Protocol (DHCP)" which is currently unchecked. The main area contains several input fields: "IP address" with the value "192.168.109.", "Subnet mask" with "255.255.255.0", "Gateway IP address" with "192.168.109.2", and "Port" with "54937". Below these is a section for "WLAN SSID (network name)" with two empty text boxes and a "Show password" checkbox. To the right of the SSID fields is an "Encryption" section with five radio button options: "none", "WEP - 64", "WEP - 128", "WPA - TKIP", and "WPA2 - AES" (which is selected). At the bottom of the window is a "Save" button.

7.6.2 Internet (not Eco version)

When configuring a fuel terminal for the GPRS network, the corresponding settings can be configured using the HD Manager program. To do so, select the menu option "Settings > Settings", and click on the button "HDA - (W)LAN/GPRS" under the tab named "(W)LAN/GPRS".

Upon selecting the "GPRS" option, you will be able to enter the corresponding settings of the GPRS SIM card provider into the corresponding fields.

7.6.2.1 Customer ID

The end customer will need to complete a one-time registration at the following link to receive a customer ID: <http://hdmanager.net/register.php>

After registering with an e-mail address and password, an activation link will be sent to the e-mail address provided to verify that it indeed belongs to the end customer.

Upon clicking on the activation link, the customer ID will be displayed in the browser, and the customer will also receive an e-mail containing his/her customer ID.

The e-mail address, password, and customer ID are all required in order to configure fuel terminals with a GPRS interface in the HD Manager program.



Note: The end customer may need to provide the technician installing the fuel terminal with the customer ID so that he/she can enter it in the corresponding menu.

The screenshot shows a window titled "GPRS" with the following fields and options:

- Radio buttons for LAN, WLAN, and GPRS (selected).
- Customer-ID: 12345678
- SIM card PIN: [masked] Show
- Access Point Name (APN): internet.telekom
- Username: t-mobile
- Password: [masked] Show
- 1. DNS IP Adresse: [empty] Port: [empty]
- 2. DNS IP Adresse: [empty]
- Save button

Click on "Save" to save the data to the file "network.dat" in the folder selected. This file can now be copied onto a USB stick and the data transferred to a fuel terminal with a GPRS interface via the corresponding menu option of the terminal.

If all steps have been done correctly, upon reading in the data, the fuel terminal will be fully configured and able to connect to the internet automatically. During the first login, the fuel terminal's master device data will automatically be uploaded to the internet and saved on the web server.

Dateiname:

Dateityp:

Enter the e-mail address and the password previously used to register the customer ID in the internet account settings and click on the "Login" button to confirm.

Units Password Directories Favorites (W)LAN / GPRS

TCP / UDP port

 Activate UDP

Internet account settings
 Email address

 Show password

automatic data call every
 5 min 1 h
 15 min 6 h
 30 min 12 h
 45 min 24 h
 manually only
 Notification: show always

If the login is successful, the status bar will change from red to green and the settings for the automatic retrieval of dispensation data will be activated. By default, dispensation data for all fuel terminals configured with this customer ID will be retrieved every 30 minutes.

Password Directories Favorites (W)LAN / GPRS

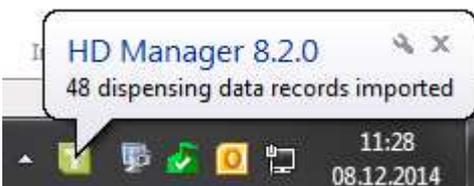
Internet account settings
 Email address

 Show password

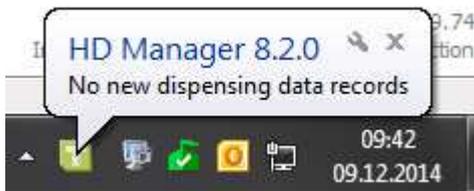
automatic data call every
 5 min 1 h
 15 min 6 h
 30 min 12 h
 45 min 24 h
 manually only
 Notification: show always

OK

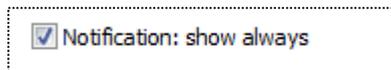
During each data retrieval, a notification will be displayed as long as dispensation data is available.



If you want notifications to be displayed even if no new dispensation data is available, the following info box will be displayed:

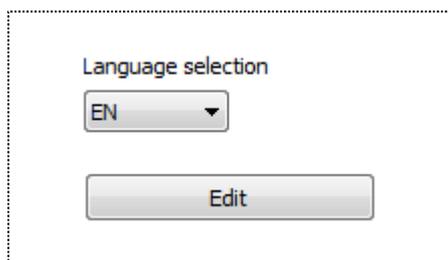


This option can be set by ticking the checkbox "Notification: show always".

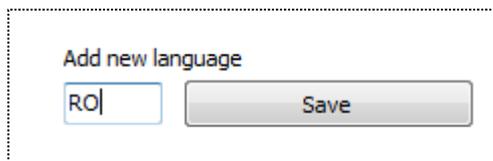


7.6.3 Language

Use the Language selection box to change the program language. If your desired language isn't available in the list, it can be added manually.



To add a language, click *Edit*. The window expands. You are able to add an abbreviation for the desired language. After saving, the new language is applied. Any individual portions that have not yet been translated are displayed in English as standard.



Once a language has been added manually, it appears in the table below, in addition to the German and English languages. Individual entries can now be translated and saved. When searching for a particular entry, only the manually added language is searched.

Language files may be available on the HD Manager 8 update website. Such files can be imported into your program. Download the relevant language file and import it into your system via the import button. The new language can then be selected for use.

Language selection: RO

Add new language: RO [Save] [Delete]

Delimiter: ;

[Data export]

[Data import]

Text: []

[Search]

Own translation: Date de baza [Save]

[Refresh]

DE	EN	RO
Sprache	Speech	Speech
► Stammdaten	Master data	Master data
Stammdaten importieren	Import master data	Import master data
Stammdaten senden! Bestehende Daten auf dem	Send master data! Existing data on the tank auto	Send master data! Existing data on the tank auto
Status	Status	Status

The German (DE) and English (EN) languages cannot be deleted from the program. In order to delete a language that was added manually, first select a language other than the one to be deleted. (The language that is currently in use cannot be deleted.) Enter the abbreviation for the language that is to be deleted, and after confirmation, the language will be deleted from the program.

Click *Data export* to save your own language translations. These translations could be made available on the update website, provided that they are sent to HORN TECALEMIT (subject to review). See chapter 7.6.5: Help.

7.6.4 Database

7.6.4.1 Summary

The *Summary* tab contains an overview of entries in the program database. The number of drivers and vehicles are shown. If any of these do not have identification (PIN or transponder ID), the number of such entries is shown.

The number of fuelings and zero quantity fuelings is also shown. If, due to incorrect use, a fuel terminal has an incorrect date that is set in the future, and if fuelings with such a date were imported, the number of any such fuelings is also shown here.

Summary [Backup] [Data transfer] [Delete] [Data import]

Database

Identifier DK.FDB

Server

Port 3050

Local database [Select]

Count

Vehicles 444

Without identification 0

Driver 250

Without identification 0

Fuelling data 2213

External fuelings 0

Zero quantity fuelings 12

Delivery date is in the future 0

To edit a different program database, click Local database *Select*.

👉 If you are using the Full version of the program and open a database that was activated on a different computer, the program will be reset to the Eco version. The activation key is saved in the respective program database.

7.6.4.2 Backup

To immediately save the program database as a *.fbk backup file into a directory of your choice, click *Save backup as*.

After specifying a backup target directory, the database can be backed up automatically, either every day of the week or every day of the month. If backing up on a weekly cycle, the current latest backup plus up to 6 previous backups will be available. If backing up on a monthly cycle, you will have up to the 31 most recent backups available.

When backing up on a weekly cycle, an abbreviation for the day of the week is appended to the file name, for example BackupFile_Tu. On a monthly cycle, the day of the month is appended, i.e.: BackupFile_21. Older backups are overwritten.

Click *Start* to activate automatic backups. Click the button again to stop automatic backups.

Automatic backups occur 15 seconds after the program is launched. On days on which the program isn't launched, no automatic backup takes place. However, in this case, there would be no changes to the database.

Date	Duration	Backup	Filename
------	----------	--------	----------

The backups that have been carried out are listed in the table below. The table shows the backup date, backup duration, the status (OK or FAIL) and the full name of the

backup file. Click on a file name and Windows Explorer opens the corresponding directory.

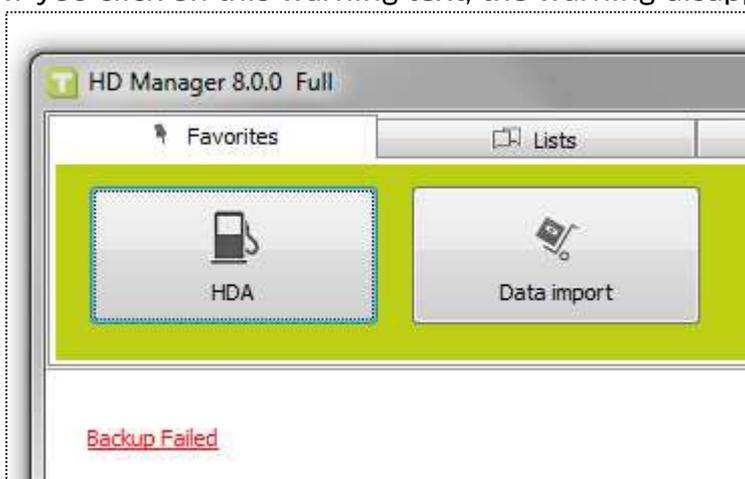
Date	Duration	Backup	Filename
21.08.2013 10:40:24	00:00:01	OK	C:\ProgramData\HD Manager 8\backup\BackupFile_21.fbk
21.08.2013 10:34:18	00:00:01	OK	C:\ProgramData\HD Manager 8\backup\backup-immediately.fbk

It is also possible to restore a backup. To do so, enter a new database ID that hasn't previously been used, then select a backup file. The backup file is then restored under the name that you just entered.

Database with designation

In the *Summary* tab, you can now select this database locally. See chapter 7.6.4.1.

If a backup fails, this is shown in the top left of the program window. If you click on this warning text, the warning disappears.



 **Tip: In the Server version, only the main administrator can set up automatic backups.**

7.6.4.3 Data from previous program versions

Data from previous program versions (Tank Data Manager 3, 4, 5, HD Manager 6, 7) can be imported into HD Manager 8. To do so, select the 'old' database. When it is selected, its data records are shown. When importing data, driver or vehicle data already in the program will not be overwritten or updated. Only new drivers and vehicles are added. Details of any existing tanks or prices are not imported, as the underlying data structure changed in HD Manager 8.

When importing data in this way, a new fuel terminal is created for the imported database. This terminal has a '-DbImport' suffix.

Summary Delete Data transfer **Data import**

Database path

Select

Import data

Abort

Database **HD Manager 6**

	Count	imported	exist	Error
Tankautomat	3			
Products	2			
Vehicles	66			
Drivers	12			
Fuelling data	294			
Groups	0			

Note
Existing driver / vehicle data will not be overwritten or updated.

Click *Abort* to cancel a data import that is in progress.

7.6.4.4 Delete

Data that is no longer required can be removed from the program. When deleting fuelling data, you can choose whether to delete all data, or just internal or external fuelling data. The number of fuelings in the specified date range is shown underneath the *Delete* button.

Drivers and vehicles that have already been marked as "Deleted" in the program can be selected here and permanently removed from the program.



When a driver/vehicle is deleted, all dispensation data related to the driver/vehicle in the program will also be deleted.

Summary Backup Data transfer **Delete** Data import

Fuelling data

from

up to

all fuelling data
 only fuelling data
 only external fuelings

Delete 19

Endgültig Löschen

Vehicles

Delete 5

Drivers

Delete 6

Delete order number

all order numbers

Delete

Delete all zero fuelings

Delete

When deleting order numbers, only the actual numbers are deleted from the database. The actual fuelling data remains in the system, but without an order number.

Zero fuelings are an exception to this. Zero fuelings are imported fuelings where the amount dispensed is listed as 0.

When deleting (apart from when deleting zero fuelings), you will be asked to confirm that this is what you want to do.

7.6.4.5 Data import

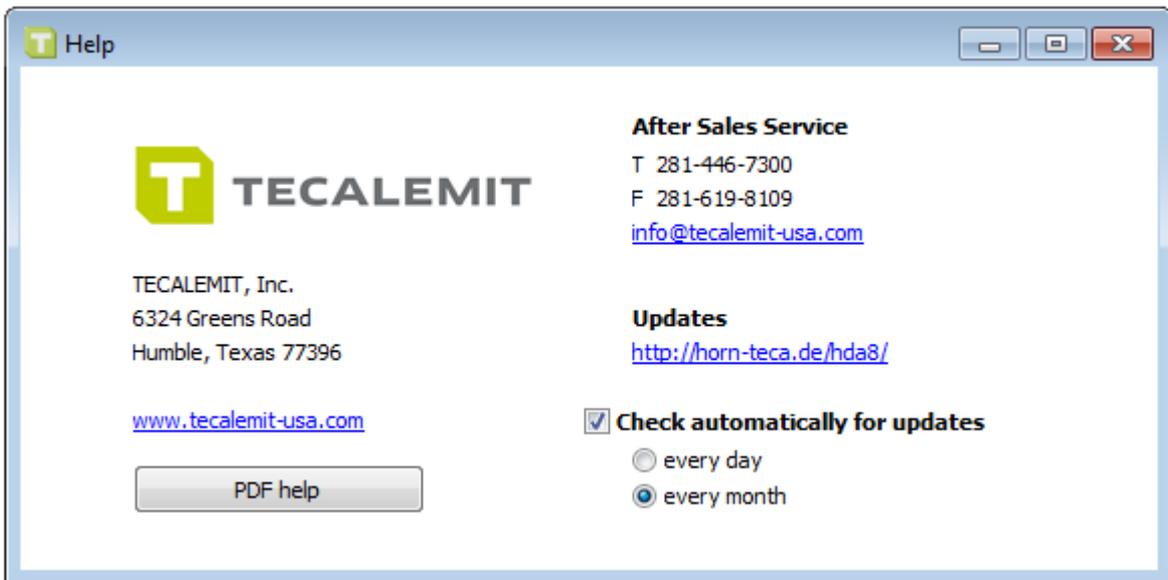
This screen separately lists all data imports that took place during the specified time period. The list contains the start and end date and time of the imported fueling data. In addition, the table view below shows the first 25 (max) fueling data records for the imported data.

Tankautomat	Vehicle	Driver	Liter	Date
▶ HDA	1001	1001	108,64	05.03.2013 05:10:43
HDA	1002	1001	84,92	05.03.2013 06:32:43
HDA	1002	1001	150,81	06.03.2013 07:08:43

If the program is used to manage multiple fuel terminals, it is possible to retrospectively assign incorrectly allocated data (i.e. from a USB flash drive) to a different fuel terminal. In the menu, select the fuel terminal to which the data should be assigned. Then click *Assign* to assign the import to the terminal that you have selected. You will be asked to confirm that this is what you want to do before the import is assigned.

7.6.5 Help

The help file shown can be opened via the program's help or the F1 key. You will need to have a PDF viewer (e.g. Adobe Reader) installed on your PC.



TECALEMIT's service contact details are shown at the top right of the window. Program updates are made available for download at the address given. If activated, HD Manager 8 can check at fixed intervals to see whether a new program update is available. If an update is available, it will be shown at the top left of the main program window in underlined, flashing text. Click on this text to open the update web page. Then follow the instructions given on the page.



7.6.6 Activation

Activating the software is described in chapter 5. The **Eco** version doesn't require registration.

In order to test the software, it can be converted to a **Demo** version. See chapter 3.5. For end user support, the software should be activated as a **Service** version. See chapter 3.3.

Identification number	208D-EC81-4603
Product code	<input type="text" value="13060-5026215-9181350"/>
Company	<input type="text" value="Horn Tecalemit"/>
Phone number	<input type="text" value="0461 - 8696 - 0"/> *
Works number	<input type="text"/> *
	<input type="button" value="Online activation"/>
Activation code	<input type="text"/>
	<input type="button" value="Activate"/>
	HD Manager Version: Full
	Licenses: 1

7.6.6.1 Internet proxy settings

If the computer has been configured with special proxy settings, they will also be automatically detected and included in the configuration. The proxy settings can be edited manually. Online activation can only be carried out with the right proxy settings.

Proxy settings	
Server	<input type="text"/>
Port	<input type="text" value="8080"/>
Username	<input type="text"/>
Password	<input type="text"/>
	<input type="checkbox"/> Activate
	<input type="button" value="Activate by mail"/>

The proxy settings also apply for fuel terminals that have been set up via the internet and/or which are to be configured to retrieve their dispensation data via the internet. If this connection is to be established via a proxy server, it will need to be activated accordingly.

7.6.7 User rights (only in the Server version)

The menu item User rights is only available to the main administrator (the user whose PC was used to activate the Server version of the software).



The main administrator manages access rights for the other licensed users. Their status can be upgraded from *User* to *Administrator*. Administrators have full rights in their respective client, including the ability to delete data. Only administrators are allowed to retrieve data via a serial interface or modem.

Administrator
 User

Refresh

Username	IP	Rights	Status
▶ User 1	192.168.109.217	Administrator	Online
User 2	192.168.109.103	User	Offline
User 3	192.168.109.164	User	Offline

To help with assigning access rights, the names of the respective computers, along with their IP addresses, are shown in the table. Details of their rights and status are also shown. If a licensed user's access rights are changed, the changes only take place once the program is next launched.

In the Server version, the main administrator also has permissions to set up automatic backups. See chapter 7.6.4.2.

8 Addendum

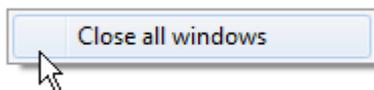
8.1.1 General

Date fields are always pre-populated: from the first day of the month up to the current date.

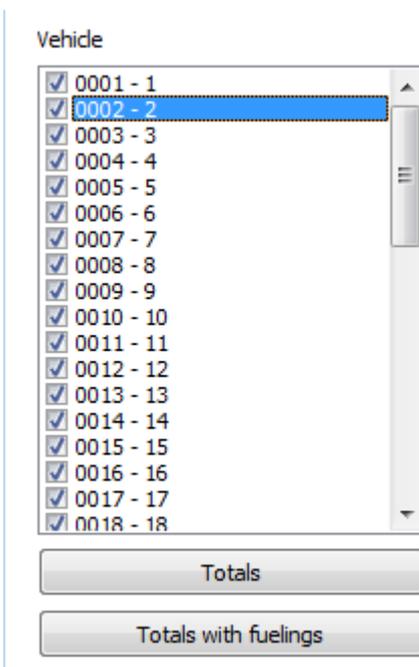


The image shows two date selection fields. The first field is labeled 'vom' and contains the date '01.03.2013'. The second field is labeled 'bis zum' and contains the date '25.03.2013'. Both fields have a small calendar icon to their right.

If you right-click within the program, a dialog window appears. Confirm with a left click to close all open program windows.



Double click in a selection field to select (or deselect) all entries. This doesn't apply to Master data - Authorization and Master data - Groups.



The image shows a dialog window titled 'Vehicle'. It contains a list of 18 entries, each with a checked checkbox and a text label: '0001 - 1', '0002 - 2', '0003 - 3', '0004 - 4', '0005 - 5', '0006 - 6', '0007 - 7', '0008 - 8', '0009 - 9', '0010 - 10', '0011 - 11', '0012 - 12', '0013 - 13', '0014 - 14', '0015 - 15', '0016 - 16', '0017 - 17', and '0018 - 18'. The entry '0002 - 2' is highlighted in blue. Below the list are two buttons: 'Totals' and 'Totals with fuelings'.

Whenever a program window is closed, the program remembers its position. When the window is next opened, it is opened in its previous position.

8.1.2 Report

Reports can be output in a number of ways, depending on the version of the software that you have registered.

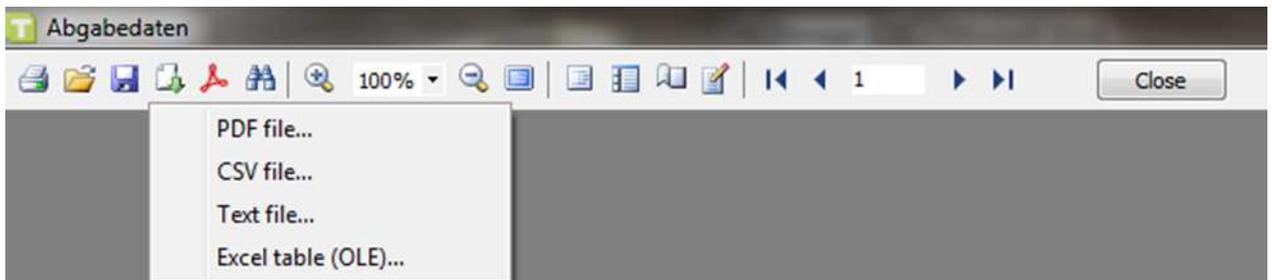
They can be shown full-screen. To return to windowed mode, simply double click anywhere on the report. Use the arrow buttons to browse through the report. The number of pages is shown in the status bar at the bottom left hand corner of the report.

Page 1 of 5

Clicking the *Close* button or pressing the *Esc* key will close the report.



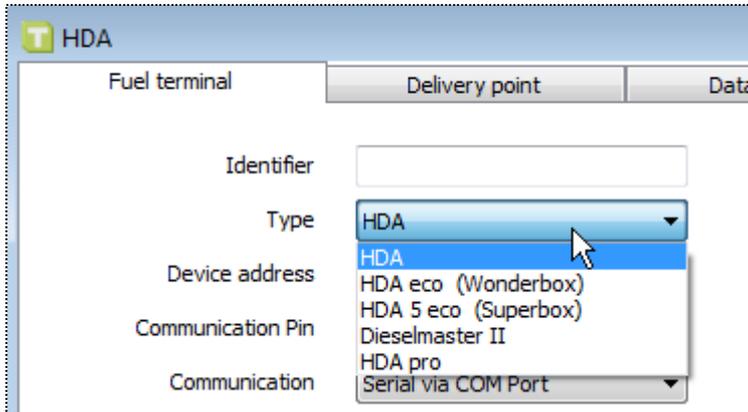
In the **Eco** version, your report is shown onscreen and can be printed. You can also perform a search for a particular entry.



The **Full** and **Server** versions also allow you to save the report as a *.fp3 file. You can open this type of file from a report that is already open. The report can additionally be saved as PDF, CSV, text or an Excel file.

8.1.3 Overview of fuel terminals

When a fuel terminal is switched on, the firmware version is shown on the display. This overview shows which fuel terminals can be called up, along with the type that should be specified.



Firmware	Fuel terminal	Type
1300..1415 1502..1507 2000	DM II HDM HDM II	Dieselmaster II
2001..2004 2100..2104 4002 2011 2111 3000..3999 4011, 4013	HDM III HDM 410x 0 ne HAM 41030 ne HDM 3108 e HDM 410x0 e HAM 41030 e HDM 41050/150 ne HDM 410x0 HAM 41030 HDM 410x0 HDA-4 HDM 41050/150 ne	HDA
4111..4999	HDA eco (Wonderbox)	HDA eco (Wonderbox)
500000..539999	HDA-5 eco (Superbox)	HDA-5 eco (Superbox)
540000..549999	HDA pro ne	HDA pro ne
550000..559999	HDA pro e	HDA pro e

8.1.4 XC Master data import

If the XC Master program is still being used to retrieve data from Dieselmaster II fuel terminals (see chapter 8.1.3), the data from XC Master can be imported into HD Manager 8 as a file. To do so, you need to adhere to the following points when exporting the data from the XC Master program.

XC Master 3

The data retrieved should be saved as a TXT file via *Data > Export*.

XC Master 4

Before exporting your data, go to *Export > Settings* and set the separator as TAB, line breaks as CR + LF and select the dataset header box. You can now export your retrieved data as a TXT file via *Export > Export file*.



Tip: HD Manager 8 can only import fueling data. No data on total amounts can be imported.

8.1.5 Troubleshooting

If you are using a COM port or modem to transfer data, and data isn't correctly transferred, there are a number of possible causes. Check the following points:

- Has the device address been entered incorrectly?
- Has the correct COM port been selected?
- Is the COM port defective?
- Has the correct telephone number been entered? (Check for transposed digits)
- Is the cable connected correctly?
- Is the modem fitted with a valid SIM card?
- Has the pump been locked, so that data transfer is not possible?
- Is the socket modem on the HDA control board defective?

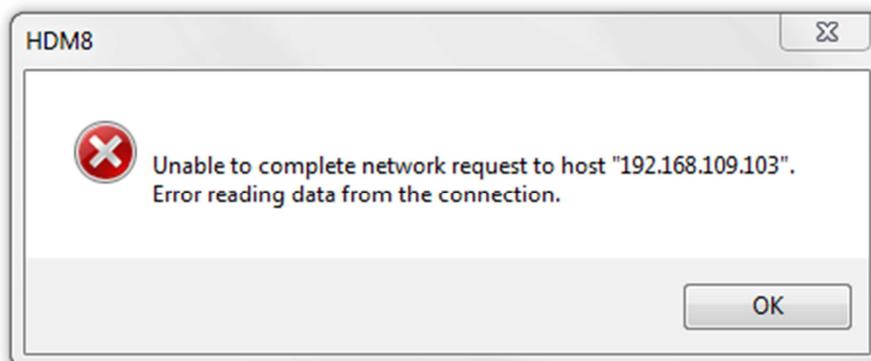
8.1.6 Database missing

If the following screen appears, it means that no database was found in the directory that you specified for it. (The default database directory is: *C:\ProgramData\HD Manager 8\database*.)



8.1.7 Network connection error (only in the Client/Server version)

This error message appears when a network connection between the client and server could not be established, or when such a connection was lost (only in the Client/Server version).



8.1.8 Status bar messages

The program's status bar displays known errors and various pieces of information:

- **OK:** Data transfer was successful.
- **Fail:** Error(s) occurred during data transfer.
- **Modem not active:** Check the modem.
- **Modem not available:** The modem is not available.
- **Serial Port Error:** There was a problem when trying to open the COM port.
- **Only for HDA eco:** - The free version of the program, HD Manager 8 Eco, was used to try to call up a fuel terminal that isn't an Eco terminal.
- **Error Please Retry:** - Please try to retrieve data again.
- **Wrong access code:** - Incorrect communication PIN. Go to Master data > HDA > Fuel terminal and enter the correct PIN for the relevant terminal, then save.
- **User Abort:** Data transfer was canceled by the user.
- **Access Code Changed:** The communication PIN was changed successfully.
- **Terminal busy:** The terminal is dispensing fuel, or settings are being changed. Try again in 30 seconds.
- **All data deleted:** All driver and vehicle data has been deleted from the fuel terminal.
- **SIM card blocked:** The SIM card needs to be unlocked, by entering a PUK. This occurs when there have been three attempts to establish a data connection with an incorrect PIN.



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