

VISY-X

VISY-SoftView V 1.0

for VISY-Command GUI und VISY-View Touch

Edition: 06/2010
Version: 1
Art. no.: 350026

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1 Introduction

This documentation describes the functions of the VISY-SoftView software application.

The VISY-SoftView software application is firmware for the display module of the FAFNIR VISY-Command GUI and VISY-View Touch products.

VISY-SoftView provides the capability to view current tank data, delivery data and the various alarms signalled by the VISY-Command control unit. For instructions on how to install and operate VISY-Command, see:

- Technical Documentation for VISY-Command ... (English) – Art. No. 207184
- Technical Documentation for VISY-View Touch (in preparation)

The display module can be used for viewing and evaluating tank data as an alternative to a filling station computer.

The display component is a TFT colour screen. All functions are accessible using the touchscreen user interface.

Alarms are signalled visually by the display module and also audibly by a buzzer. As an option, a printer can be connected to the serial port.

The display module receives all its configuration data, alarms and product data from the VISY-Command control unit, which means that no special settings or configurations are needed for set-up.

The control unit must have been configured using the VISY-Setup configuration program first, see:

- Technical Documentation for VISY-Setup V4... (English) – Art. No. 207158

1.1 Safety instructions

The VISY-SoftView software application is intended for use in filling stations. The software provides the capability to evaluate filling levels and monitor tanks and their supply lines. Please only use the system for this purpose. Observe and follow all product safety notes and operating instructions. The manufacturer accepts no liability for any form of damage resulting from improper use!

VISY-Command GUI and VISY-View Touch, on which the VISY-SoftView software application is installed, have been developed, manufactured and tested in accordance with the latest good engineering practices and generally accepted safety standards. Nevertheless, hazards may arise from their use. The following safety precautions must be observed in order to reduce the risk of injury, the risk of electric shocks, fire or damage to the equipment:

- Do not change or modify the system or add any equipment without the prior consent of the manufacturer.
- Only use original parts. These comply with the technical requirements specified by the manufacturer.

- The installation, operation and maintenance of the VISY-Command GUI and VISY-View Touch with VISY-SoftView software must be carried out by expert personnel only.
- Operators, installers and service technicians must comply with all applicable safety regulations. This also applies to local safety regulations and accident prevention regulations that are not stated in these operating instructions.

The following safety information must be observed:



The touchscreen must be operated only by finger or by means of a stylus designed for this purpose. The use of pointed objects (e.g. screwdrivers, pens) may cause damage to the touchscreen.

Useful information:



Useful information in these instructions that should be observed is printed in italics and marked with this symbol.

2 Module description

The VISY-SoftView program consists of the following modules:

- VISY-SoftView Starter
- VISY-SoftView

Both program components are described in detail in the sections that follow.

3 VISY-SoftView Starter

The VISY-SoftView Starter module is launched automatically by the display module's operating system and has two tasks.

- Start phase
During the start phase, the user is informed that the main VISY-SoftView application is starting up. A progress bar shows how long until the process is complete. The start phase lasts approximately 30 seconds.



Figure 1: VISY-SoftView Starter

As soon as the main VISY-SoftView application has fully loaded and the main window is displayed, the starter application closes its display window and begins to run as a background service.

- Background service
VISY-SoftView Starter runs as a control instance in the background and monitors the main VISY-SoftView module.

4 VISY-SoftView

The VISY-SoftView module is the actual viewing and reporting application for visualising data from up to 16 tanks. The graphic below shows a typical example of the main window showing information from 6 tanks.

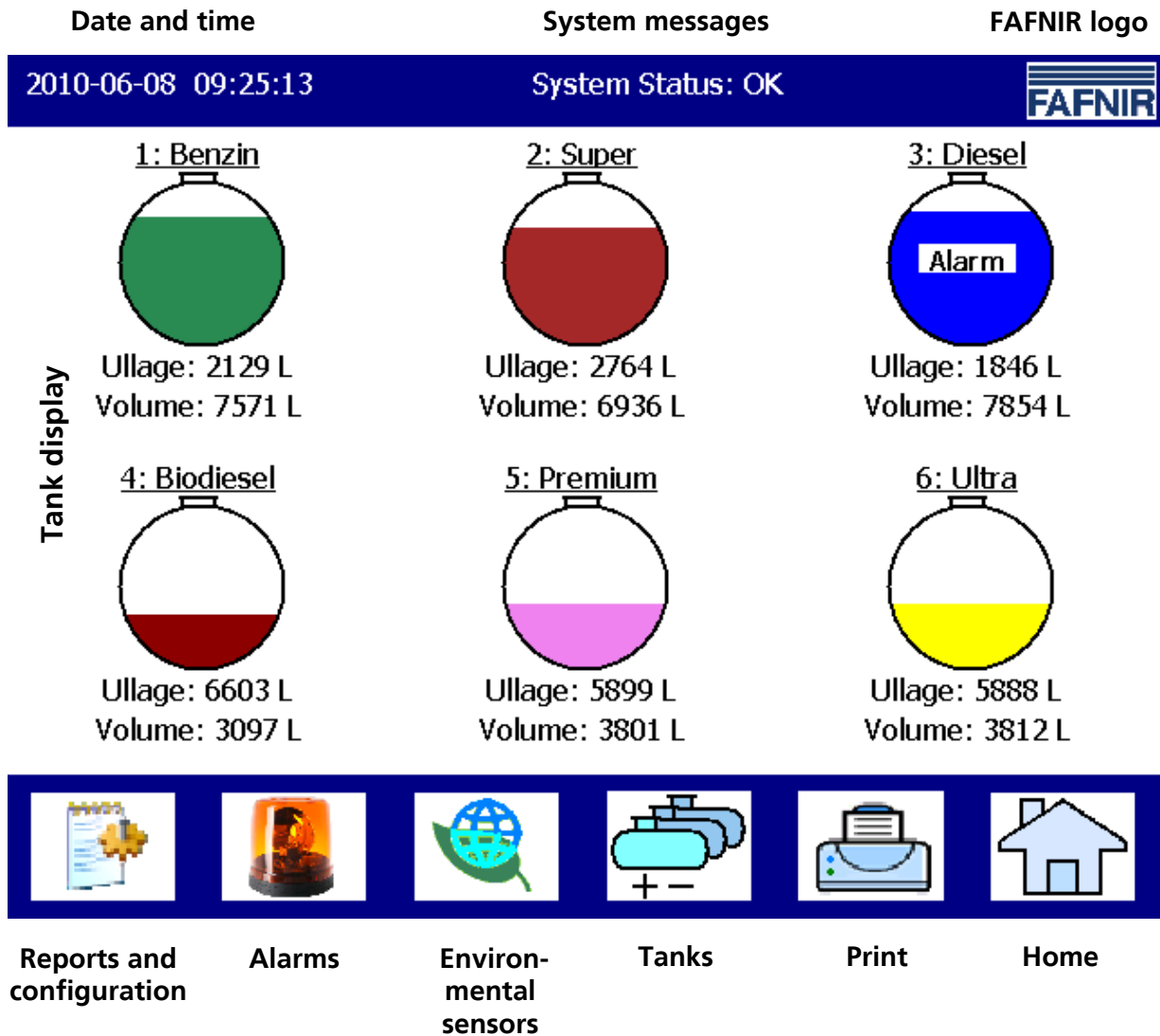


Figure 2: Main window of VISY-SoftView

All VISY-SoftView functions are accessible using the touchscreen interface. The most important functions can be selected directly using the function buttons on the main window.

All functions and displays are described in detail in the following sections:

- Date and time
- System messages
- FAFNIR logo
- Tank display
- Tank Details
- Reports and configuration (system functions)
- Alarms
- Environmental sensors
- Tanks
- Print
- Home

4.1 Date and time

Main window -> Display field for date and time

This display field shows the date and time. The time displayed here is synchronised system-wide.



As soon as you touch this field, all open windows close and the application returns to the main window.

4.2 System messages

Main window -> Display field for system messages

This display field shows the system status and displays help on how to operate the function buttons of the main window.

The system status relates to the communication between the display module and the control unit. For example, "System Status: OK" is displayed when conditions are normal.



As soon as you touch this field, all open windows close and the application returns to the main window.

4.3 FAFNIR logo

Main window -> FAFNIR logo

Pressing the "FAFNIR logo" button calls up the software version and contact information for FAFNIR GmbH.

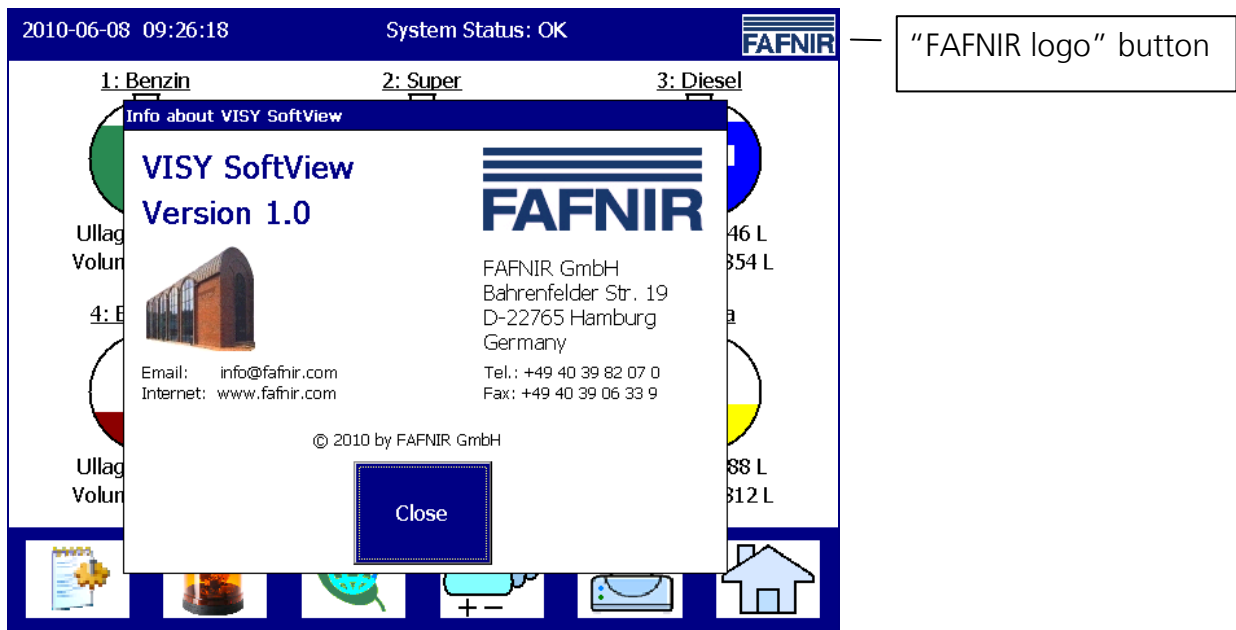


Figure 3: Version and contact window

Pressing the "Close" button closes the active window.

4.4 Tank display

The main window displays the most important tank information:

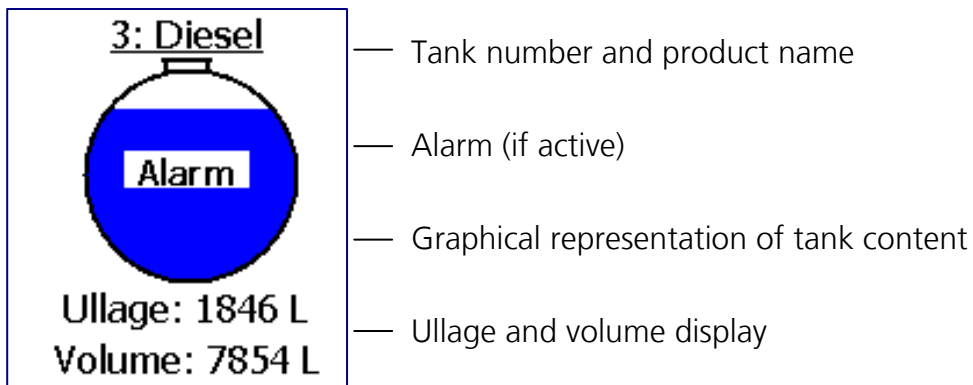


Figure 4: Individual tank

- Tank number: same as the probe terminal number of the VI card
- Product name: the product name defined in VISY-Setup for this tank
- Alarm: currently active alarms for this tank
- Ullage: spare filling capacity available in the tank
- Volume: current volume of product in this tank

The display is continuously updated so that all measured values on display are current at all times. In this overview, the ullage and volume are displayed in whole litres.

The size of the tank graphic depends on the quantity of tanks configured in VISY-Setup. Up to eight tanks at a time can be shown on the main window. Where more than eight tanks have been configured, the remaining tanks are shown on a second page. It is possible to view the other page by pressing the "More tanks" function button.

The product level is displayed in proportion to the measured filling level. Each product has its own colour assigned to it.

Touching one of the tank graphics opens the Tank Details screen for this tank (see section 4.5).

4.5 Tank Details

Main window -> Tank

Touching one of the tanks (e.g. tank 6) opens the Tank Details window.

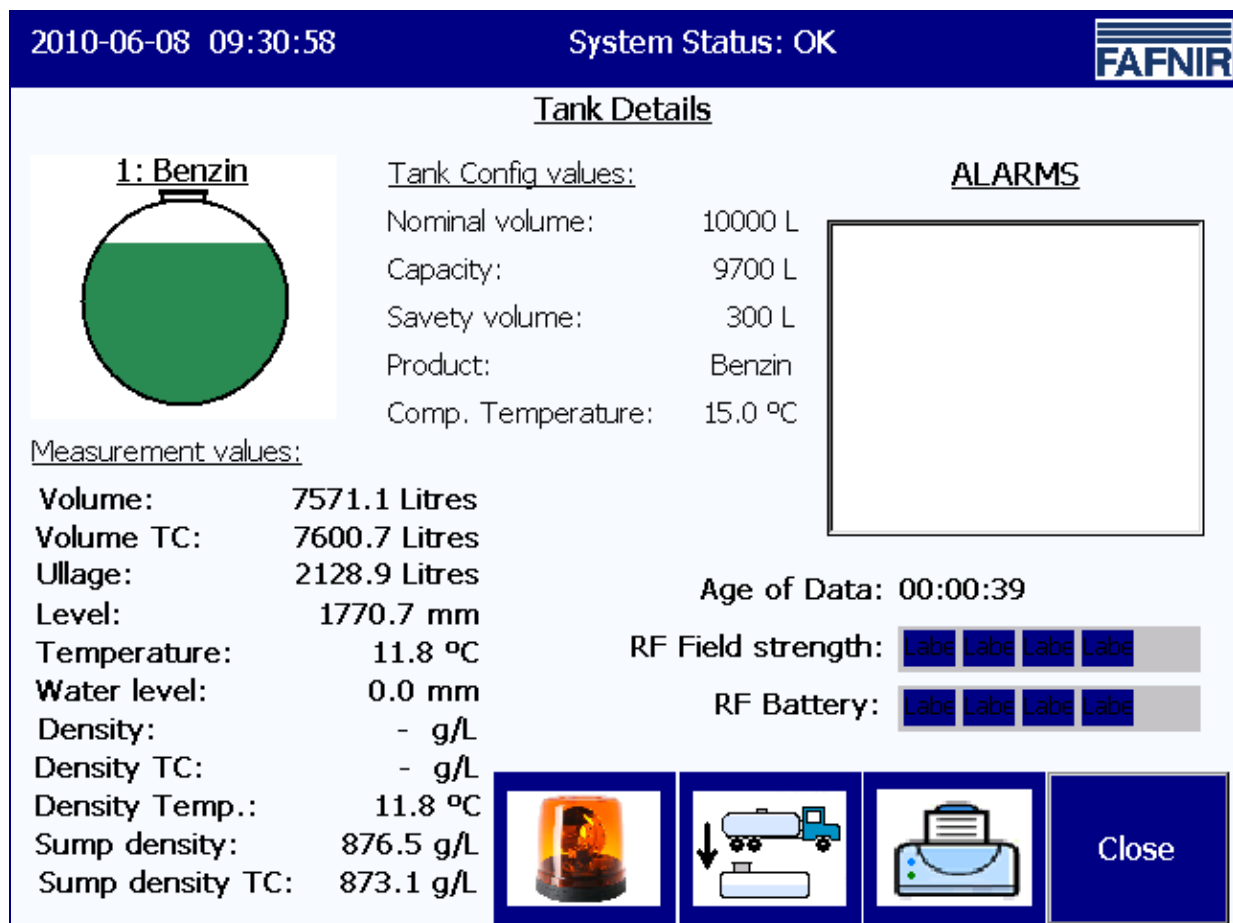


Figure 5: Tank Details

The Tank Details screen is continuously updated and shows the current values for the tank selected. The "Alarm", "Deliveries" and "Print" function buttons are associated with the tank selected.

The Tank Details screen is subdivided into the following fields:

- Tank graphic
- Tank configuration
- Measurement values
- Alarms
- Age of Data (wireless operation only)
- RF Field strength (wireless operation only)
- RF Battery (wireless operation only)
- Function buttons

The individual subfields are explained in the sections that follow.

Tank graphic

Displays the tank selected from the main window, with tank number, product name and tank level. If an alarm is active for this tank, the tank graphic will contain the text "Alarm".

Tank configuration

A list of the configuration values defined in VISY-Setup for this tank:

<u>Parameter</u>	<u>Description</u>
Nominal volume	(specified by the tank manufacturer)
Capacity	Nominal volume minus safety volume
Safety volume	Area of tank left unfilled for safety reasons (upper part of tank)
Product	Product name
Comp. Temperature	Compensation temperature

Measurement values

As supplied by the control unit:

<u>Parameter</u>	<u>Description</u>
Volume	Product volume, non-temperature-compensated
Volume TC	Product volume, temperature-compensated
Ullage	Replenishable volume for deliveries
Level	Product level in millimetres
Temperature	Product temperature
Water level	Water level in millimetres
Density	Product density, non-temperature-compensated
Density TC	Product density, temperature-compensated
Density Temp.	Temperature in the density measurement section
Sump density	Density measured at the tank bottom, non-temperature-compensated
Sump density TC	Density measured at the tank bottom, temperature-compensated



The density display is configurable. See also "Density configuration".

Alarms

Currently active alarms are listed in the "Alarms" window.

<u>Alarm type</u>	<u>Alarm parameters</u>
Product	Very high, high, low, very low
Water	Very high, high
Probe	Various probe alarms

For instructions on how to configure the alarms, see:

- Technical Documentation for VISY-Setup V4... (German) – Art. No. 207157

Age of Data


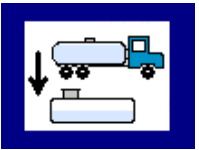


This data field is displayed in wireless operation only (VISY-RF wireless system). In wireless operation, the probe data are transmitted at intervals and signals may be affected by car or lorry traffic. For this reason, it is important to know the age of the measured values received.

RF field strength

This data field is displayed in wireless operation only and is an indication of the reception field strength.

RF Battery

This data field is displayed in wireless operation only and is an indication of the transmitter's battery charge.

Button	Function	Description
	Alarms	Opens the alarm reporting function for the tank selected (see following section).
	Delivery	Opens the delivery reporting function for the tank selected (see following section).
	Print	Prints the values displayed on this page.
	Close	Closes the current page.

4.6 Alarms



Main window -> Alarm button

Pressing the alarm button calls up the dialogue window below, which enables the user to select the desired alarm source or to abort the process. The alarms are categorised by alarms for environmental sensors and alarms for tank probes.

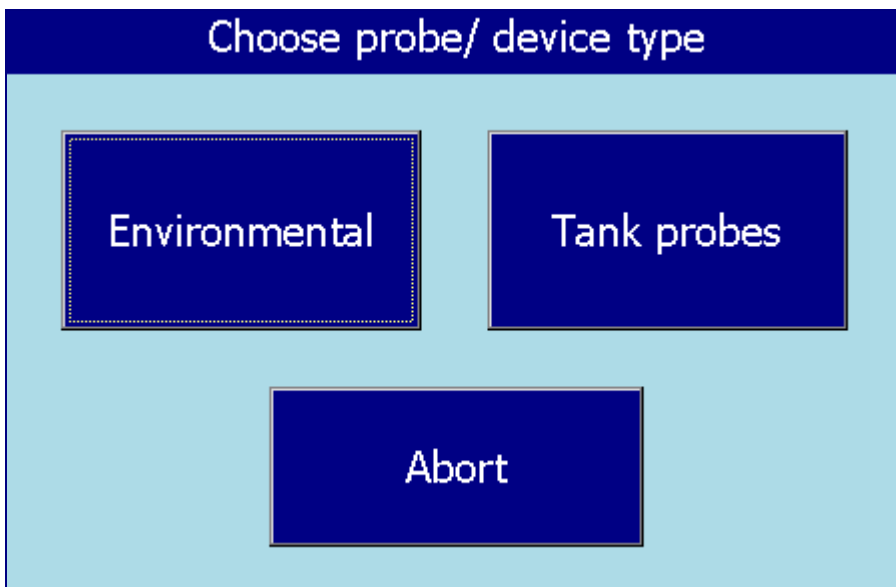


Figure 6: Alarm selection dialogue

<u>Function button</u>	<u>Description</u>
Environmental	Displays the environmental alarms overview
Tank probes	Displays the tank alarms overview
Abort	Closes the dialogue window (returns to the main window)

4.6.1 Tank Alarms

Main window -> Alarm button -> Tank probes

Selecting this function displays the tank alarms for the current month. The month for which these entries are displayed is shown on the wide "month button" below the "Tank Alarms" header. Using the +/- arrow buttons, the user can select a different month and then reload the list by pressing the "month button".

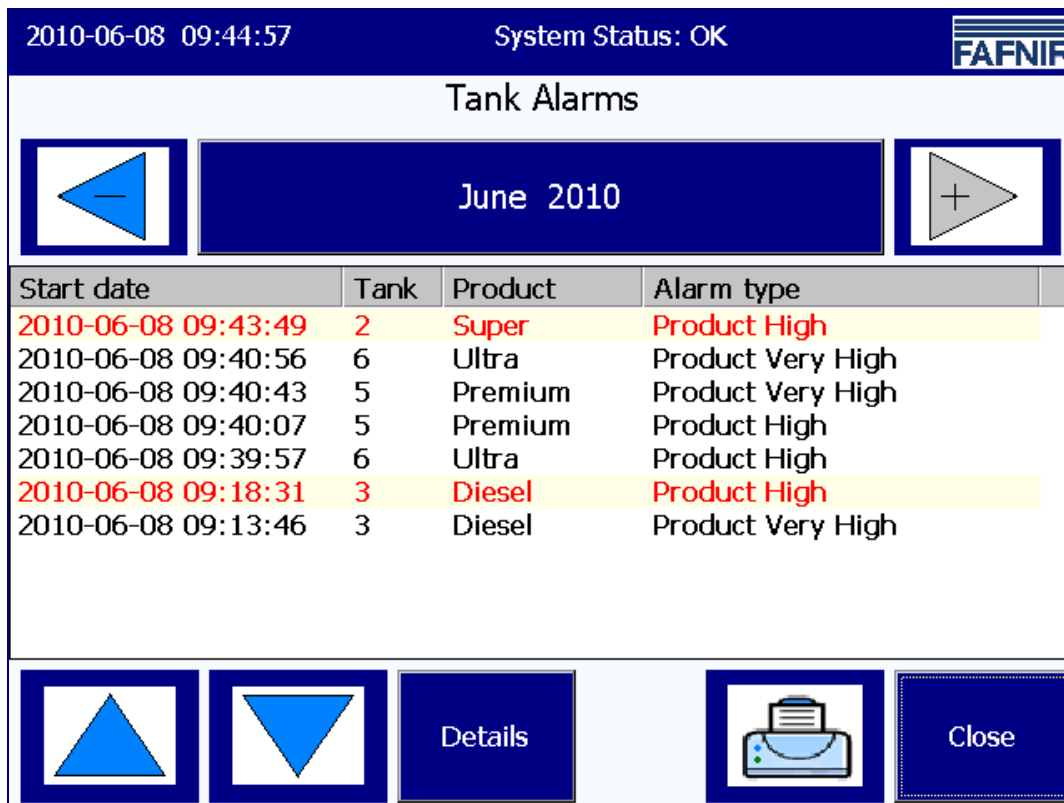
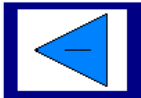
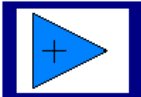

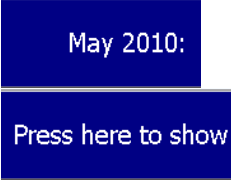




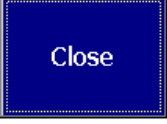


Figure 7: Tank alarms overview

Button	Function	Description
	Month selection, back a month	
	Month selection, forward a month	
	Month button, month selection, month confirmed.	Displays the entries for this month
	Month button, month selection, not yet confirmed.	One of the month selection buttons has been pressed.
	List entry selection, up one line	Selects the entry in the line above the current position

Button	Function	Description
	List entry selection, down one line	Selects the entry in the line below the current position
	Details	Opens the detailed view window for the entry selected
	Print	Prints the values displayed on this page.
	Close	Closes the current page.

List of tank alarms

The list (see Figure 7 and Figure 8) shows the tank alarms along with their most important parameters. Further details for each alarm entry can be called up by pressing the "Details" button.

Currently active alarms are displayed in red font on a yellow background. Previously active alarms are displayed in black font on a white background.

Start date	Tank	Product	Alarm type
2010-06-08 09:43:49	2	Super	Product High
2010-06-08 09:40:56	6	Ultra	Product Very High
2010-06-08 09:40:43	5	Premium	Product Very High
2010-06-08 09:40:07	5	Premium	Product High

Figure 8: List of tank alarms

<u>Column</u>	<u>Description</u>
Start date	Time at which the alarm occurred
Tank	Tank (probe terminal number) for which the alarm was reported
Product	The product name configured for this tank
Alarm type	Type of alarm reported, e.g. "Product High"

The following values are logged for each tank alarm:

Start date:	Time at which the alarm occurred
Confirmed:	Time at which the alarm was acknowledged by the user
Stop date:	Time at which the cause of the alarm was rectified.
Tank number:	Tank (probe terminal) for which the alarm was reported
Product:	The product name configured for this tank
Alarm type:	e.g. "Product Low"

Alarm entry details window

For clarity, only the most important parameters are displayed for selection in the list field. The desired alarm entry can be selected using the "up" and "down" buttons. The entry/line selected is highlighted with a dark background.

Pressing the "Details" button opens the "Alarm details" window. This window displays all available details for the alarm selected.

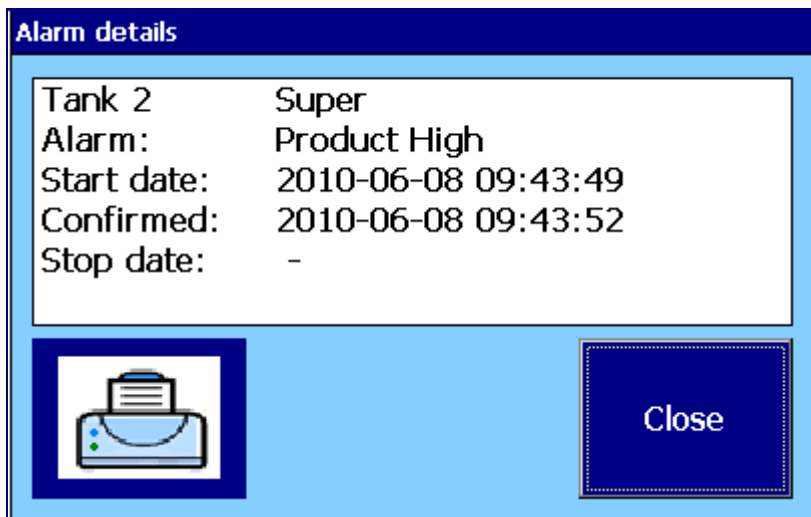


Figure 9: Alarm details window with high-priority active alarm



High-priority active alarms may not have a stop date entry. In this instance, as shown in the example above, a hyphen "-" is displayed instead.

<u>Button</u>	<u>Description</u>
Print	Prints out the details displayed for the selected tank alarm entry.
Close	Closes the tank alarm details window

4.6.2 Environmental alarms

Main window -> Alarm button / Environmental

Selecting this function displays the environmental alarms for the current month. The month for which these entries are displayed is shown on the wide "month button" below the "Environmental alarms" header.

Using the +/- arrow buttons, the user can select a different month and then reload the list by pressing the "month button".

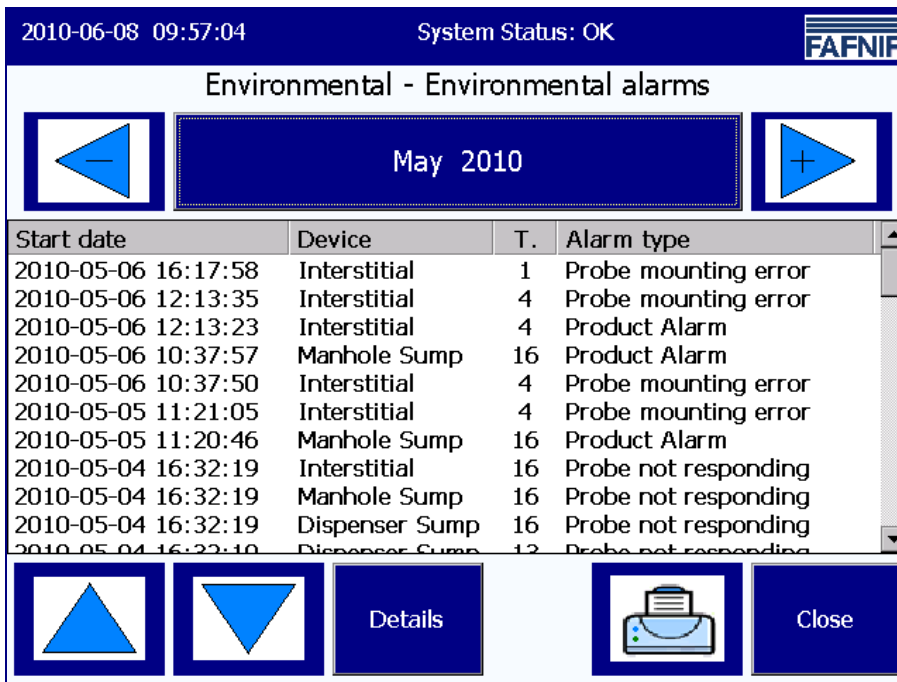
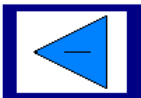
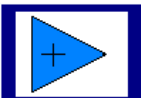

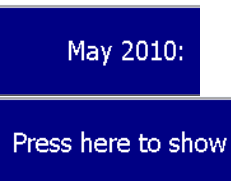




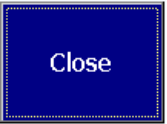


Figure 10: Environmental alarms overview

Button	Function	Description
	Month selection, back a month	
	Month selection, forward a month	
	Month button, month selection, month confirmed.	Displays the entries for this month
	Month button, month selection, not yet confirmed.	One of the month selection buttons has been pressed.

Button	Function	Description
	List entry selection, up one line	Selects the entry in the line above the current position
	List entry selection, down one line	Selects the entry in the line below the current position
	Details	Opens the detailed view window for the entry selected
	Print	Prints the values displayed on this page.
	Close	Closes the current page.

List field (environmental sensor alarms)

The list field displays the most important alarm parameters. Further details for each alarm entry can be called up by pressing the “Details” button. High-priority active alarms are displayed in red font on a yellow background. Previously active alarms are displayed in black font on a white background.

Start date	Device	T.	Alarm type
2010-05-06 16:17:58	Interstitial	1	Probe mounting error
2010-05-06 12:13:35	Interstitial	4	Probe mounting error
2010-05-06 12:13:23	Interstitial	4	Product Alarm
2010-05-06 10:37:57	Manhole Sump	16	Product Alarm
2010-05-06 10:37:50	Interstitial	4	Probe mounting error

Figure 11: List field with environmental sensor alarms

<u>Column name</u>	<u>Description</u>
Start date	Time at which the alarm occurred
Device	Name of the environmental sensor device for which the alarm was reported
T.	Probe terminal number
Alarm type	Type of alarm reported

The following values are logged for each alarm:

- Start date: Time at which the alarm occurred
- Confirmed: Time at which the alarm was acknowledged by the user
- Stop date: Usually the time at which the cause of the alarm was rectified.
- Device: Device for which the alarm was reported
- Device-related additional information, e.g. "pump-id." for "Dispenser Sump"
- Probe terminal number ("T" for "Terminal")
- Type of alarm (e.g. "Probe not responding")

Alarm entry details window

For clarity, only the most important parameters are displayed for selection in the list field. The desired alarm entry can be selected using the "up" and "down" buttons. The entry/line selected is highlighted with a dark background.

Pressing the "Details" button opens the "Environmental Alarm details" window. This window displays all available details for the alarm selected.

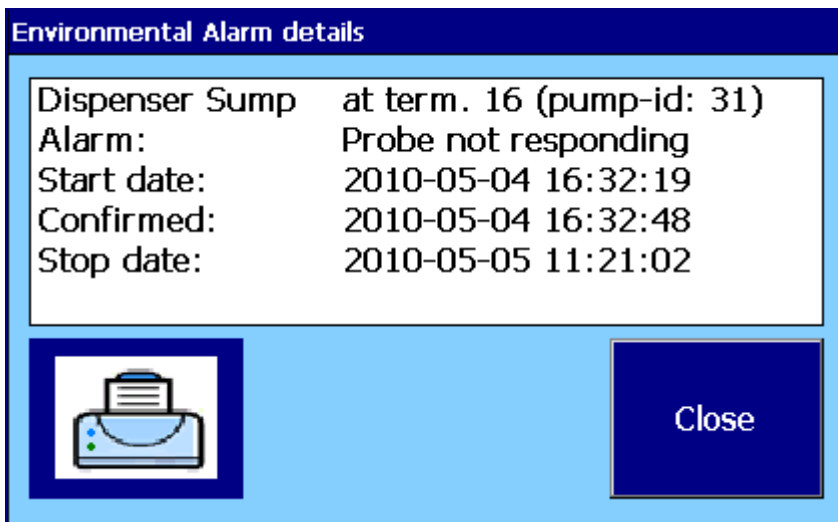


Figure 12: Detailed view of an environmental sensor alarm entry

<u>Button</u>	<u>Description</u>
Print	Prints out the details displayed for the selected environmental alarm entry.
Close	Closes the "Environmental Alarm details" window

4.7 Tanks



Main window -> "Tanks" button

The main window in VISY-SoftView displays up to eight (8) tanks. Where there are more than 8 tanks in the system, these are displayed on additional display pages. It is possible to go to the next page by pressing the "Tanks" button.

Pressing the "Tanks" button calls up the tanks window if the environmental sensor window was displayed previously.

4.8 Print



Main window -> "Print" button

Pressing the "Print" button prints off a summary of the tank or environmental sensor information displayed on the main window.

```

Tank data      2010-06-08 10:06
Tk Capacity   Ullage   Volume
  ( L)        ( L)     ( L)
1:  9700.0    2128.9   7571.1
2:  9700.0    1799.5   7900.5
3:  9700.0    1845.6   7854.4
4:  9700.0    6603.2   3096.8
5:  9700.0    2991.9   6708.1
6:  9700.0    3634.5   6065.5

Alarm state   2010-06-08 10:06
1: O.K.
2: Alarm
3: Alarm
4: O.K.
5: O.K.
6: O.K.
  
```

Figure 13: Tank overview printout

```

Environmental  2010-06-08 10:10
Interstitial
No.  Status
1:   OK
2:   OK
3:   Alarm
4:   Alarm
5:   OK
10:  OK
11:  OK
16:  OK
  
```

Figure 14: Environmental sensor printout, Interstitial

4.9 Environmental sensors



Main window -> "Environmental sensors" button

The environmental sensors are displayed as a hierarchy of three levels:

- Overview -> Selection of a particular probe/device type
- Overview of all probes of a particular probe/device type
- Display of an individual probe/device

All three views are described in detail in the sections that follow.

4.9.1 Probe and device designations

For programming reasons, the designations of some environmental probes and devices have been abbreviated and may refer to one or more probes or devices. An overview is presented in the table below.

Device (in the application)	Designation, long	Description
Interstitial	VISY-Stick/Reed Interstitial	Measurement object: double-walled tanks
Manhole Sump	VISY-Stick/Reed Sump Manhole	Measurement object: manhole sump
Dispenser Sump	VISY-Stick/Reed Sump Dispenser	Measurement object: dispenser sump
Oil Separator	Oil separator	Oil separator sensors are connected to the VISY-Command module by the "VISY- Input 8" device.
VISY Input	VISY-Input 8	Digital 8-channel input module
VISY Output	VISY-Output 4	4-channel relay output module
LD Tank	Leak detection for tanks	Device for monitoring tank leakage. Connected to the VISY-Command module by "VISY- Input 8".
LD Product Pipe	Leak detection for product pipe	Device for monitoring product pipe leakage (between tank and dispensers). Connected to the VISY-Command module by "VISY- Input 8".
LD Delivery Pipe	Leak detection for filler pipe	Device for monitoring filler pipe leakage (between connection fitting and tanks).

Device (in the application)	Designation, long	Description
		Connected to the VISY-Command module by "VISY- Input 8".
LD Manhole Sump	Leak detection for manhole sump	Device for monitoring manhole sump leakage. Connected to the VISY-Command module by "VISY- Input 8".

4.9.2 Overview/selection of a particular probe/device type

Main window -> "Environmental sensors" button

Pressing the "Environmental sensors" button calls up an overview of the selectable probe and device types.

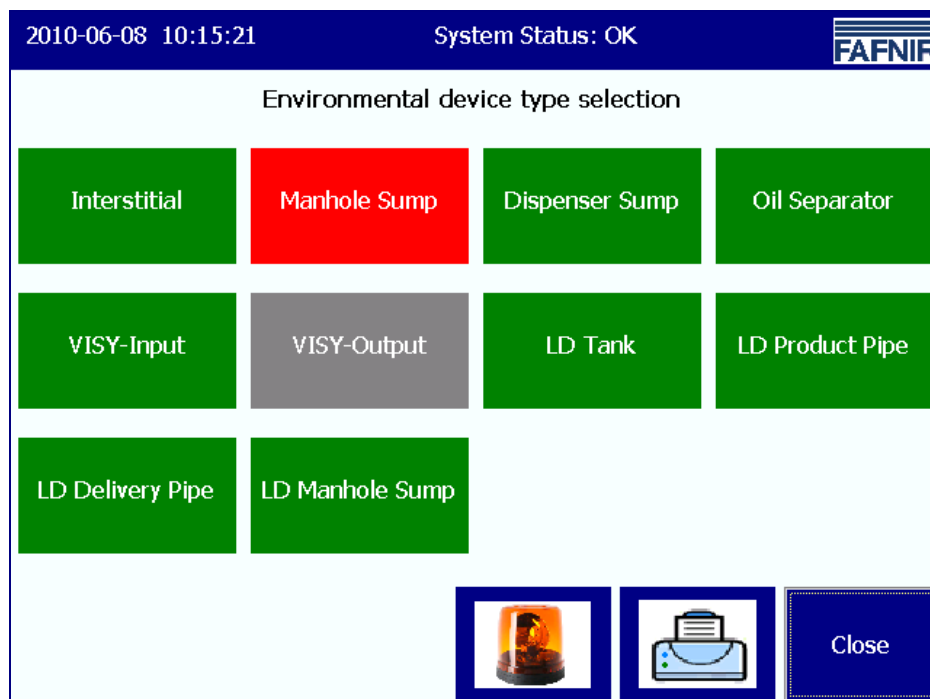


Figure 15: Environmental sensors, overview of probe/device types




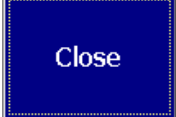
Key to colour coding:

Green: No alarm present.

Red: An alarm is present for one of the devices.

Grey: No probe/device configured yet.

Four examples of device type buttons are described here:

Button	Function	Description
	Probe type: Interstitial	Button labelled with probe type. Background colour = green, i.e. (in the example) - Quantity of probes greater than zero - No alarm reported
	Device type: Leak detection for manhole sump	Button labelled with device type. Background colour = green, i.e. (in the example) - Quantity of devices greater than zero - No alarm reported
	Probe type: Manhole sump	Button labelled with probe type. Background colour = red, i.e. (in the example) - Quantity of probes greater than zero - Alarm reported (by at least one probe)
	Device type: VISY Output	Button labelled with device type. Background colour = grey, i.e. (in the example) - No configured devices, i.e. no configured device of type VISY Output.
	Alarms	Opens the alarm menu for the environmental sensors
	Print	Prints an overview
	Close	Closes the current window

The screen is continuously updated and reflects the current status of the probe/device types displayed.

In the event of an alarm, it is possible to find and select the reporting device quickly as follows:

- The device type label is displayed with a red background.
- Pressing the red device type displays all individual devices (16) for the type selected (see example in following section).
- The individual device that is reporting the alarm is displayed with a red background.
- Selecting the red device (i.e. pressing the button) then displays all available details for this device.

4.9.3 Overview of all probes of a particular probe/device type

Main window -> Environmental sensors -> Probe or device type (e.g. Interstitial)

Selecting a particular device type (in this example: "Interstitial") displays all devices for the type selected. Here, these are all 16 possible Interstitial probes.

The probes or devices are displayed as fields within the main window.

The function buttons of the main window are, therefore, still available, with the print and alarm functions relating to the probes or devices on display.

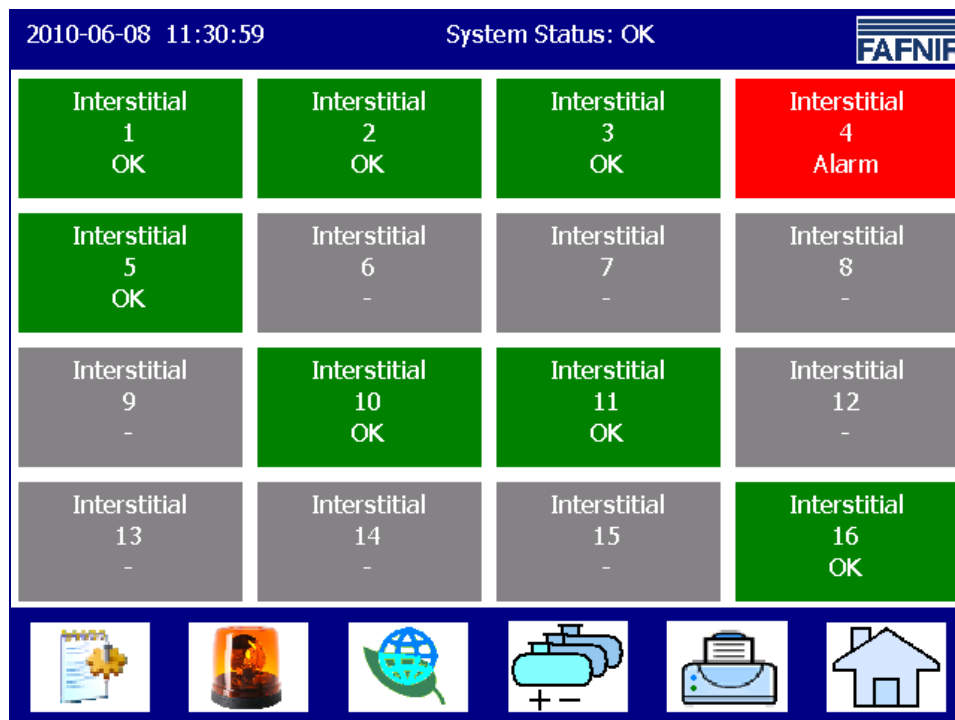


Figure 16: Main window showing probes/devices of the type selected

For each individual probe or device, the following up-to-date items of information are displayed in this overview:

- Device/probe designation (here: "Interstitial")
- Number (1 to 16, quantity sometimes device-dependent)
- Configuration (Yes/No) Background colour: see below.
- Alarm status (possible values: "OK", "Alarm" or "-")

Key to colour coding:

Green: Alarm status is "OK", i.e. no alarm present.










Red: Alarm status is "Alarm", i.e. alarm present.

Grey: Device not configured. The alarm status is displayed as "-".

Further information may be available, depending on the device type:

Pressing the button for an individual device opens a window showing further details for the device selected, e.g. active alarms (in plain text) and, where applicable, measured values (see next section).

Three examples of buttons for individual devices are described here:

Button	Function	Description
	opens the details window for probe "Interstitial no. 1"	Display of button labelled with probe type. Background colour = green, i.e. (in the example) Probe configured No alarm reported
	opens the details window for probe "Interstitial no. 4"	Display of button labelled with device type. Background colour = red, i.e. (in the example) Probe configured Alarm reported (at least one alarm)
	opens the details window for probe "Interstitial no. 6"	Display of button labelled with probe type. Background colour = grey, i.e. (in the example) Probe not configured (not present), so alarm status "-"
	System functions	As on main window, see next section: "System functions"
	Alarms	Opens the alarm menu, by default environmental sensor alarms
	Environmental sensors	As on main window, see "Environmental sensors" section, returns to selection/overview of environmental probes/device types.
	Tanks	As on main window, see "Tanks" section, switches to tank information screen
	Print	Prints out an overview of all configured devices for the type displayed here (in this example: for the Interstitial probes).
	Home	As on main window, see "Home button" section

The screen is continuously updated and reflects the current status of the probes/devices displayed.

4.9.4 Display of an individual probe/device

Main window -> Environmental sensor -> Probe or device type -> Probe/device

Pressing the button for a particular probe or device opens the details window for this probe or device.

In the example below, the button for probe "Interstitial 4" has been pressed.

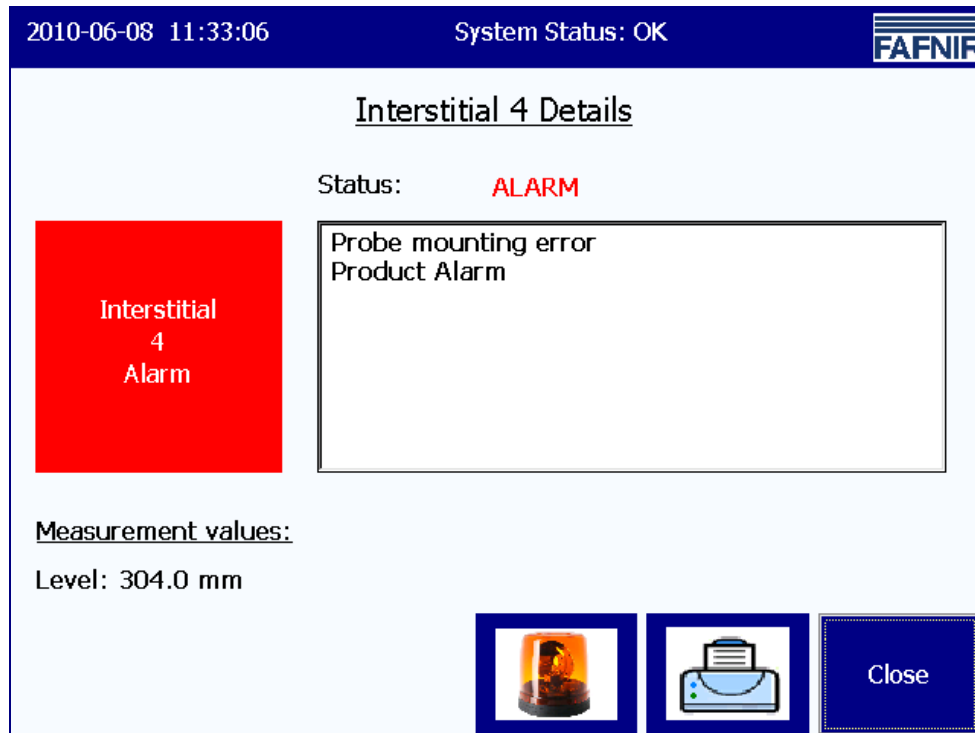





Figure 17: Details window for Interstitial 4 probe with alarm status

The details window shows the available information for the device selected. The window is continuously updated. The following details are displayed:

- Probe/device designation (here: "Interstitial")
- Probe /device number (here: "4")
- Configuration status (colour code: see previous section)
- Alarm status (here: "Alarm")
- Alarm field (here: two alarms: "Probe mounting error" and "Product alarm")
- Measured values (here: "Level: 304.0 mm")

The alarm field indicates whether alarms are currently active: if no alarm is present (status = OK), the field is blank.

Measurement values: displayed only if the probe or device supplies additional measured values. Not all environmental devices supply measured values.

Button	Function	Description
	Alarms	Opens the alarm menu, by default environmental sensor alarms
	Print	Prints out the information shown in the window for the individual probe/device (in this example: for Interstitial probe 4).
	Close	Closes the current window

```

Environmental    2010-06-08 11:34
Interstitial 4   Status: Alarm
Alarms:
Probe mounting error
Product Alarm
Level:                304.0 mm
-----
  
```

Figure 18: Printout of environmental sensor from details window for Interstitial 4

4.10 System functions



Main window -> System functions

Pressing the "System functions" button opens the selection menu for additional functions:

- Deliveries
- Configuration
- Clean (touchscreen)

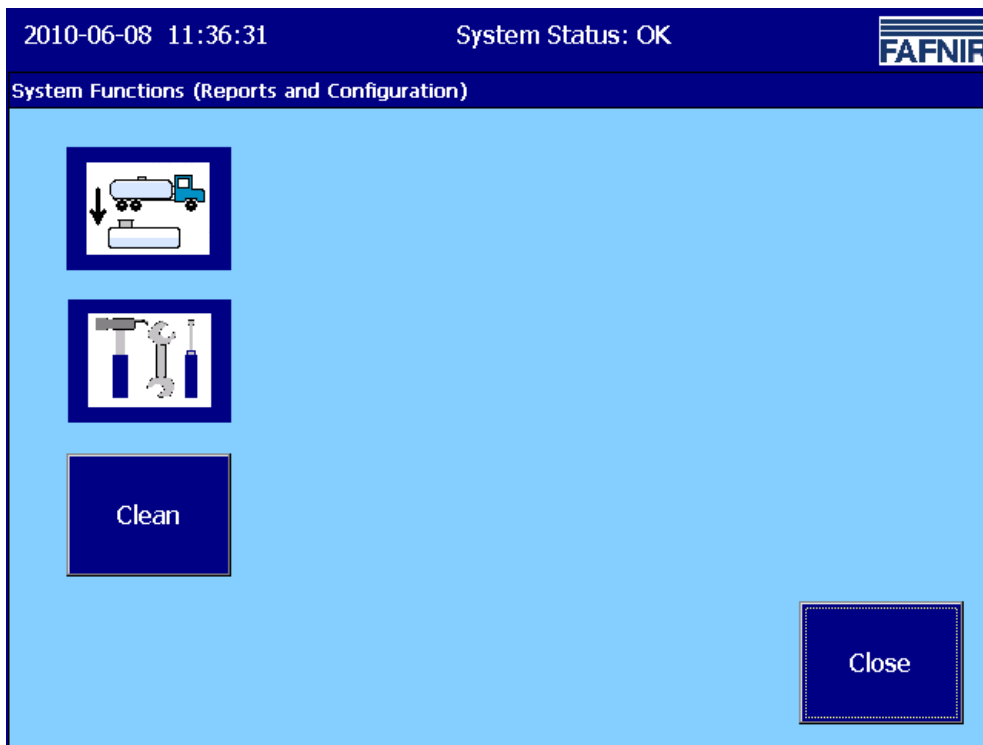
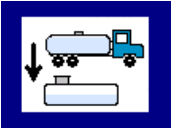

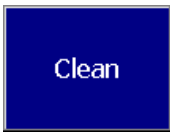



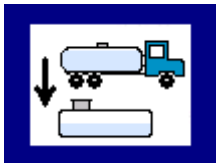
Figure 19: System functions

Button	Function	Description
	Deliveries	Opens the Deliveries menu
	Configuration	Opens the Configuration menu

Button	Function	Description
	Clean	Activates cleaning mode, enabling the user to clean the screen
	Close	Closes the current window

The individual functions are described in the sections that follow.


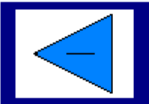
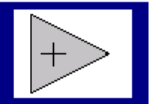
4.10.1 Deliveries



Main window -> System functions -> Deliveries

Selecting this function displays the deliveries for the current month.

The month for which these entries are displayed is shown on the wide "month button" below the "Deliveries" header. Using the +/- arrow buttons, the user can select a different month and then reload the list by pressing the "month button".

2010-06-08 12:14:40		System Status: OK			
Deliveries					
		June 2010			
Start date	Tank	Product	TC Volume/Ltr.	Volume/Ltr.	
2010-06-08 09:39:03	5	Premium	5518.1	5521.8	
2010-06-08 09:38:55	6	Ultra	5077.3	5085.7	
2010-06-04 09:44:54	2	Super	967.6	965.0	
2010-06-01 14:15:45	4	Biodiesel	4855.6	4854.7	
2010-06-01 14:15:25	1	Benzin	4151.5	4135.3	




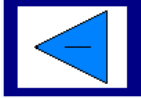
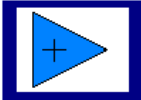

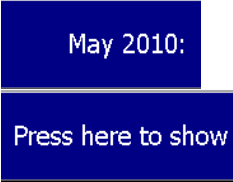




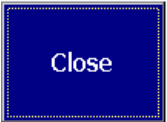
		Details		Close
---	---	---------	---	-------

Figure 20: Delivery function

Button	Function	Description
	Month selection, back a month	
	Month selection, forward a month	
	Month button, month selection, month confirmed.	Displays the entries for this month
	Month button, month selection, not yet confirmed.	One of the month selection buttons has been pressed.
	List entry selection, up one line	Selects the entry in the line above the current position
	List entry selection, down one line	Selects the entry in the line below the current position
	Details	Opens the detailed view window for the entry selected
	Print	Prints the values displayed on this page.
	Close	Closes the current page.

List field

The list field displays the most important delivery parameters. Further details for each delivery entry can be called up by pressing the “Details” button.

Start date	Tank	Product	TC Volume/Ltr.	Volume/Ltr.
2010-06-08 09:39:03	5	Premium	5518.1	5521.8
2010-06-08 09:38:55	6	Ultra	5077.3	5085.7
2010-06-04 09:44:54	2	Super	967.6	965.0
2010-06-01 14:15:45	4	Biodiesel	4855.6	4854.7
2010-06-01 14:15:25	1	Benzin	4151.5	4135.3

Figure 21: Delivery data, overview in list field

<u>Column name</u>	<u>Description</u>
Start date	Time at which the alarm occurred
Tank	Probe terminal number/tank
Product	The product name configured for this tank
TC Volume/Ltr.	Delivered product volume in litres, temperature-compensated
Volume/Ltr.	Delivered product volume in litres, non-temperature-compensated

The following values are logged for each delivery:

<u>Parameter</u>	<u>Description</u>
Tank number	Probe terminal number for this tank
Product	The product name configured for this tank
Start date	Start of delivery
Stop date	End of delivery
Volume TC	Temperature-compensated delivery volume
Start Volume TC	Temperature-compensated volume at start of delivery
Stop Volume TC	Temperature-compensated volume at end of delivery
Volume	Delivery volume (non-temperature-compensated)
Start Volume	Volume (non-temperature-compensated) at start of delivery
Stop Volume	Volume (non-temperature-compensated) at end of delivery
Start Temperature	Product temperature at start of delivery
Stop Temperature	Product temperature at end of delivery
Diff. Temperature	Temperature difference (stop value minus start value)
Start Prod. Level	Product level (mm) at start of delivery
Stop Prod. Level	Product level (mm) at end of delivery
Diff Prod. Level	Product level difference (in mm, stop value minus start value)
Start Water Level	Water level (mm) at start of delivery
Stop Water Level	Water level (mm) at end of delivery
Diff Water Level	Water level difference (in mm, stop value minus start value)



Only the temperature-compensated volume has the “TC” suffix. Volumes that do not have the “TC” suffix are non-temperature compensated values.

Delivery entry details window

For clarity, only the most important parameters are displayed for selection in the list field. The desired delivery entry can be selected using the “up” and “down” buttons. The entry/line selected is highlighted with a dark background.

Pressing the “Details” button opens the “Delivery details” window. This window displays all available details for the delivery selected.

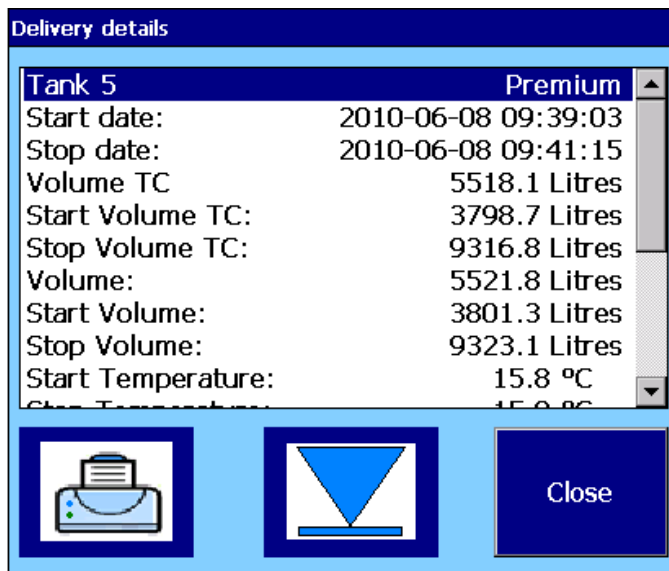



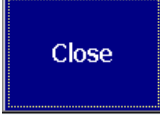
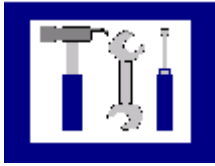


Figure 22: Delivery details window

Button	Function	Description
	Rapid scroll button “down”	Rapid scroll to the bottom half of the “Delivery details” window
	Rapid scroll button “up”	Rapid scroll to the top half of the “Delivery details” window
	Print	Prints the values displayed on this page.
	Close	Closes the current page.

Rapid scroll button: Due to limited space, not all delivery details can be shown in the details window at once. The rapid scroll button enables the user to view the other half of the list instantly. The scroll direction is indicated by the position of the dash (top/bottom). Whenever the rapid scroll button is pressed, the symbol changes to represent the opposite direction.

4.10.2 Configuration



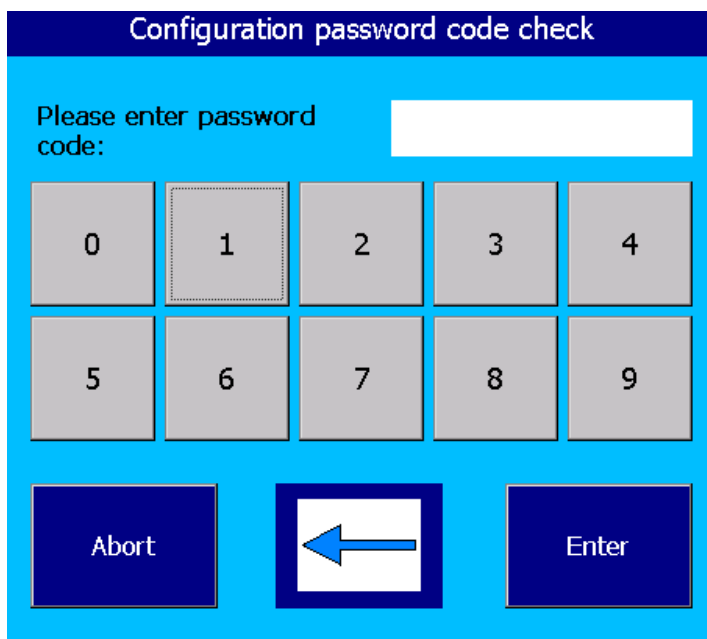
Main window -> System functions -> Configuration

Pressing the "Configuration" button opens the Configuration menu. For security, the functions available here are password-protected.

Configuration, password entry

The Configuration menu is password-protected. Enter the password code (two-two-seven-six-five) using the number buttons "0" to "9" and confirm your entry with "Enter".

The arrow button enables you to delete the last number entered. Each number entered is hidden by an asterisk. The Configuration menu is displayed as soon as the correct password has been entered. Otherwise, the dialogue window will close and the application will return to the main window. Pressing the "Abort" button closes the password window and the application returns to the main window.



The image shows a dialog box titled "Configuration password code check". Inside the dialog, there is a text prompt "Please enter password code:" followed by a white input field. Below the input field is a numeric keypad with buttons for digits 0 through 9. At the bottom of the dialog, there are three buttons: "Abort", a button with a left-pointing arrow, and "Enter".

Figure 23: Password entry for configuration

Configuration menu

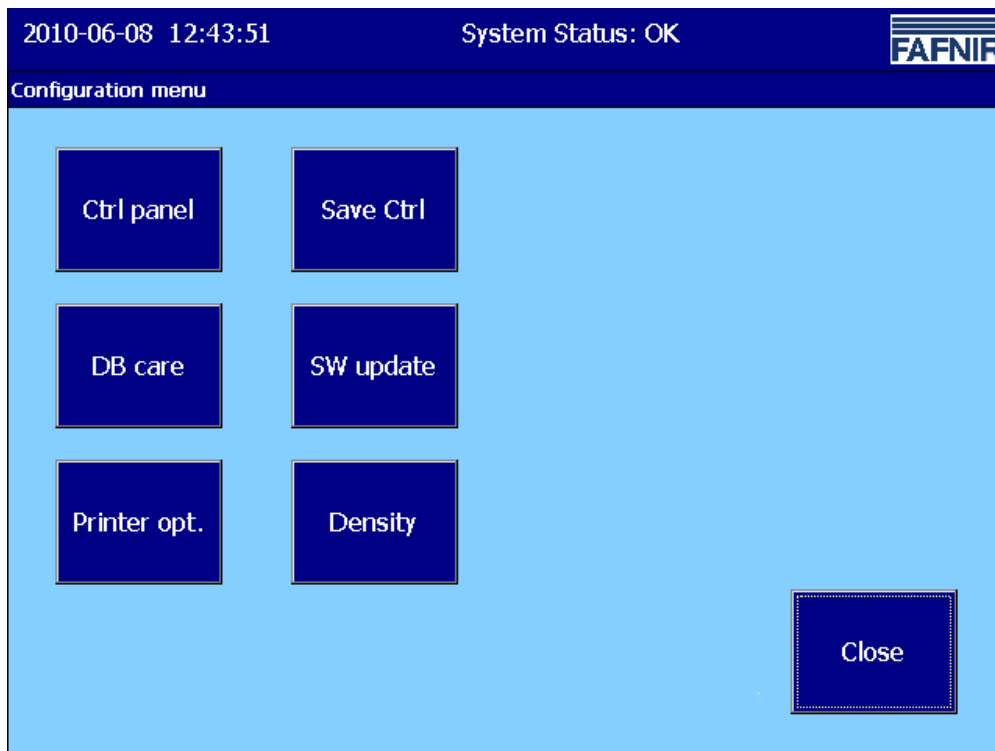








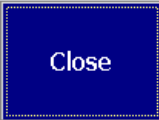
Figure 24: Configuration menu

The Configuration menu contains the following functions:

- Database care
- Software update
- Printer options
- Density display
- Control panel
- Save control panel

The individual functions are described in more detail in the sections that follow.

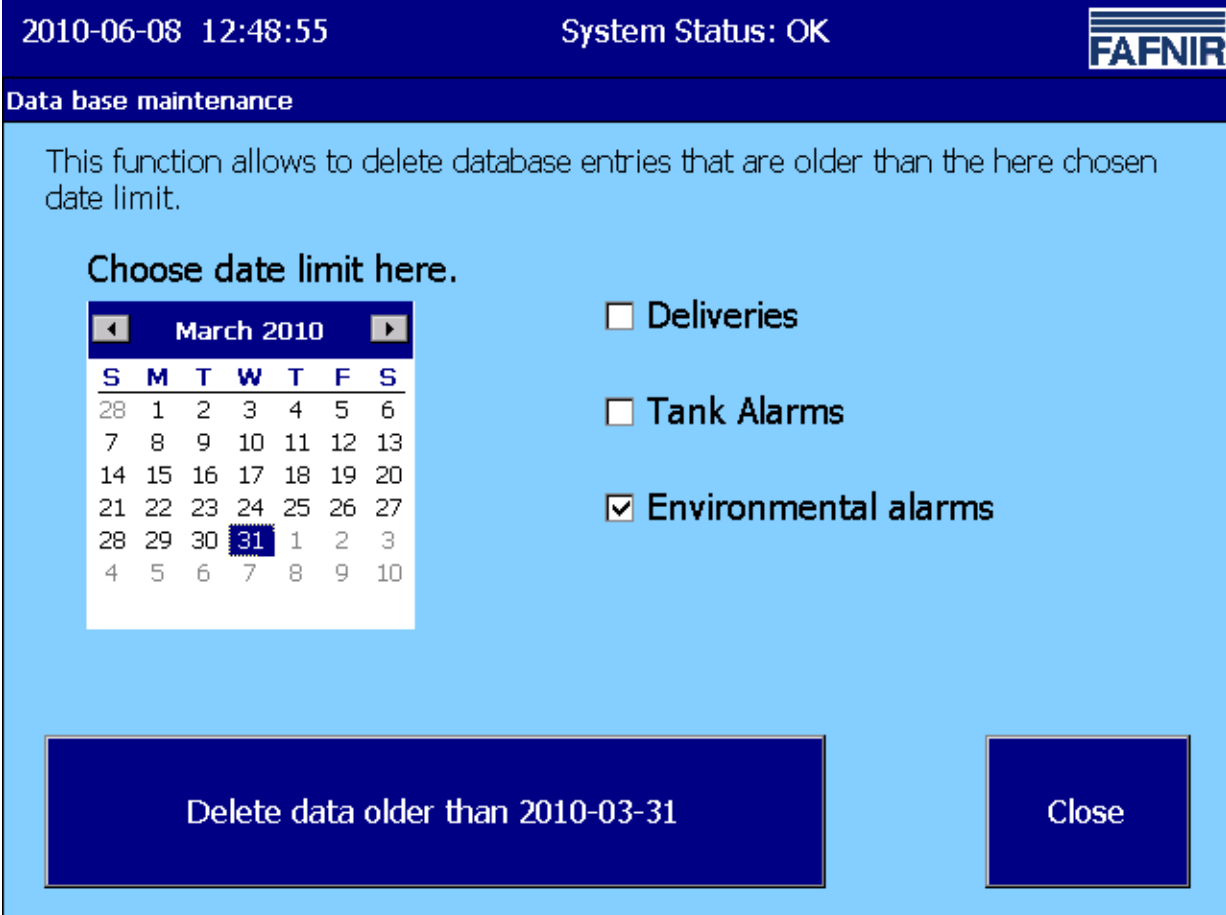
Button	Function	Description
	Database care	Opens the database care function
	Density display	Opens the density display configuration function

Button	Function	Description
	Software update	Opens the software update function
	Printer options	Opens the function for configuring ticket print parameters
	Control panel	Opens the Windows CE control panel.
	Save control panel	Saves the changes made in the Windows CE control panel.
	Close	Closes the current page.

Database care

Main window -> System functions -> Configuration -> DB care

This function enables the user to delete old database entries:



2010-06-08 12:48:55 System Status: OK

Data base maintenance

This function allows to delete database entries that are older than the here chosen date limit.

Choose date limit here.

S	M	T	W	T	F	S
28	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	1	2	3
4	5	6	7	8	9	10

Deliveries

Tank Alarms

Environmental alarms

Delete data older than 2010-03-31

Close

Figure 25: Database care

The day selected in the calendar field is used as the lower date limit. The date limit selected is displayed in plain text on the large "Delete" button.

Database entries for the following tables can be deleted:

- Deliveries
- Tank Alarms
- Environmental alarms

Each table can be selected individually. A selected table is marked by a tick. Only entries from the table or tables marked with a tick will be deleted.


When the Delete button is pressed, all entries from the selected tables and older than the defined date limit are deleted.

Software update

Main window -> System functions -> Configuration> SW update

The software update function makes it possible to install a new version of VISY-SoftView on the display module.

Supported installation media formats are SD cards and USB sticks.

 *SD cards are supported only if they do not have capacity greater than 2 GB.*

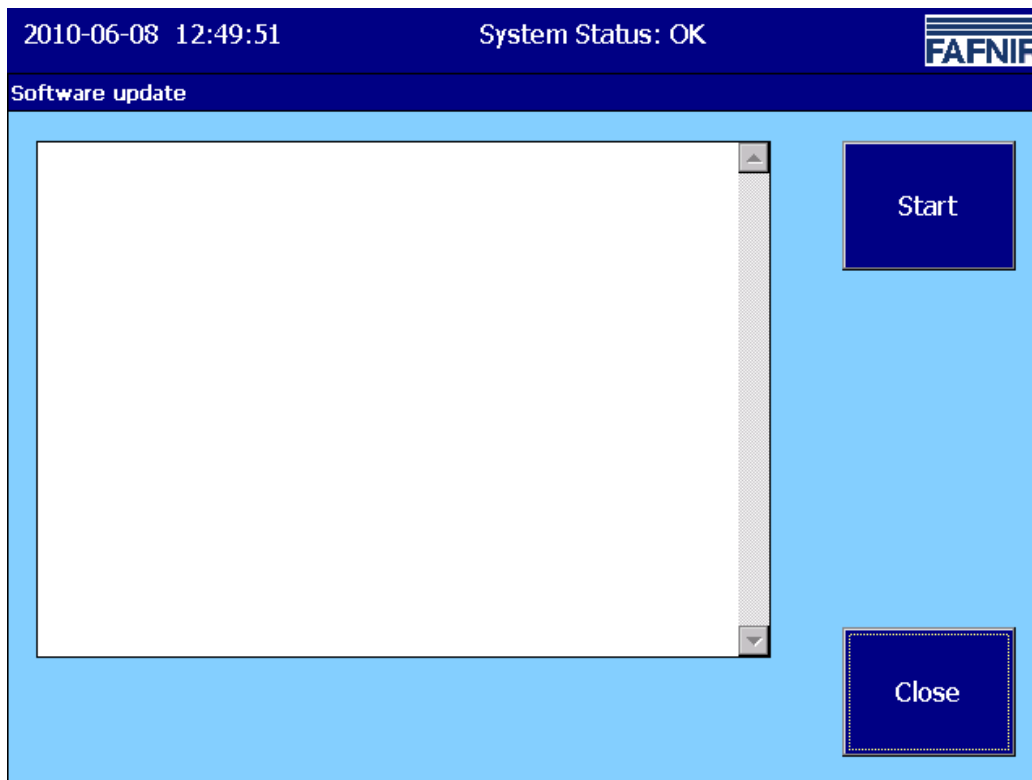




Figure 26: Software update

Button	Function	Description
	Start	Start software update.
	Close	Closes the current page.

Running the software update

Pressing the Start button begins the software update. The display window gives step-by-step feedback and the end result.

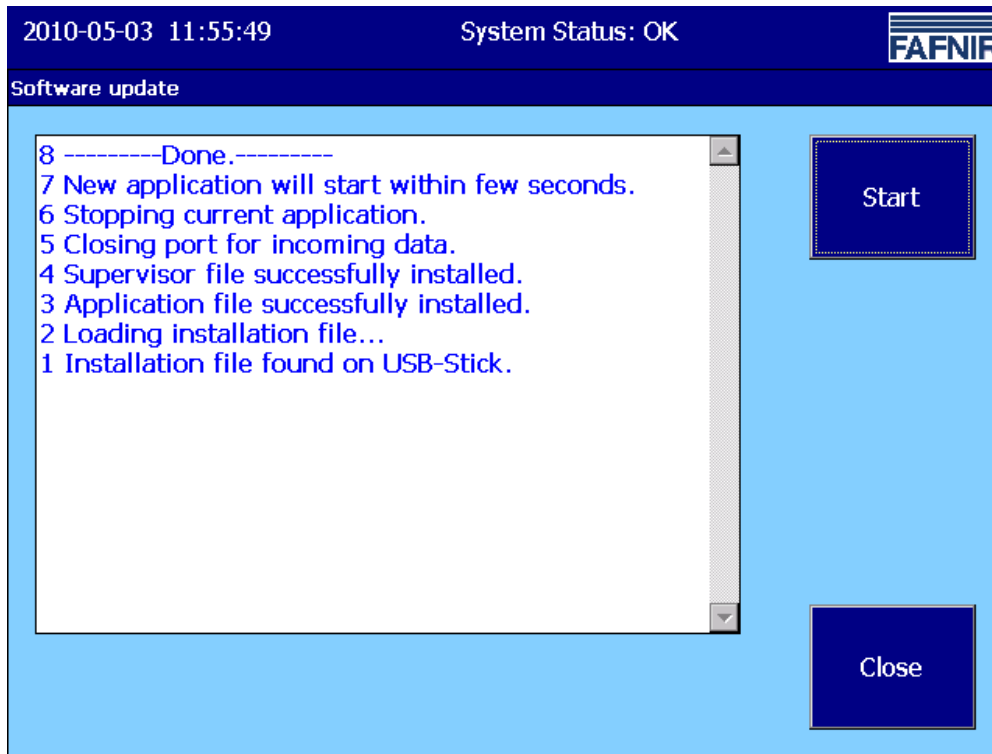


Figure 27: Messages with successful software update

The lines displayed are sequentially numbered. Each new line appears at the top of the list. After successful installation, the application is restarted. In the process, the "VISY-SoftView Starter" will be displayed briefly. The application restart can take up to one minute.

Printer options

Main window -> System functions -> Configuration -> Printer opt.

This menu offers a series of options for the way in which tickets are printed out.

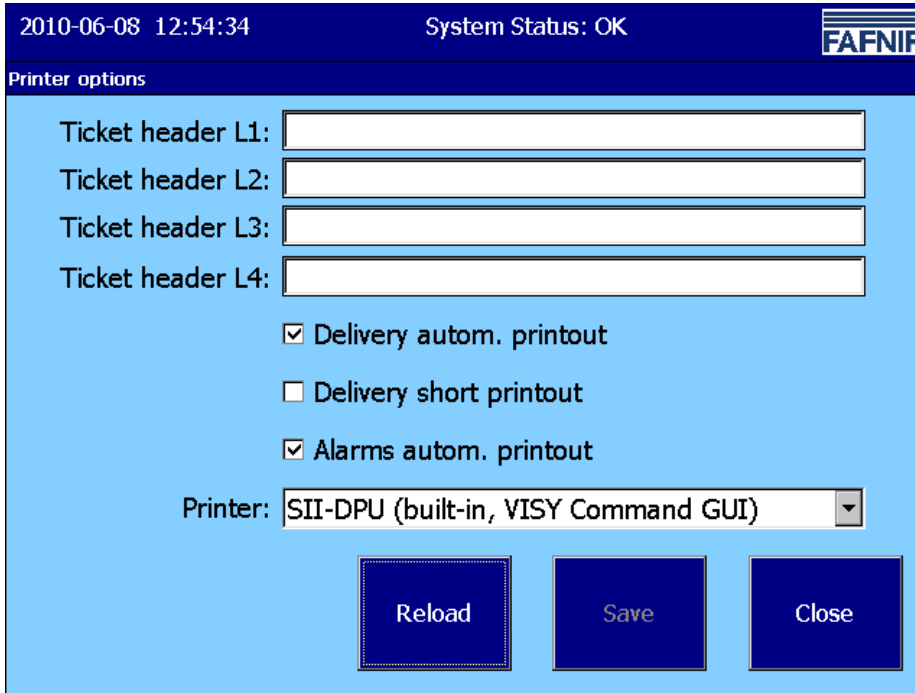


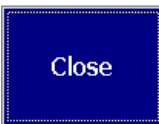
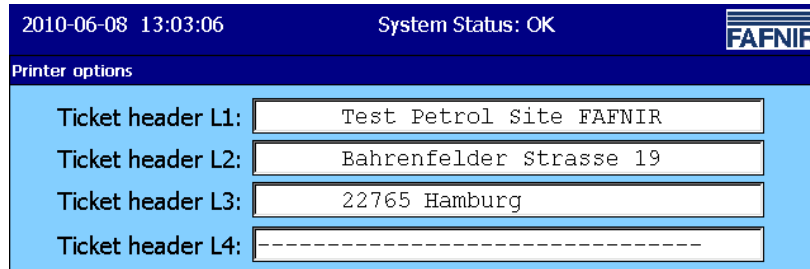


Figure 28: Printer options

Button	Function	Description
	Reload	Reloads the saved parameters from the database and displays them.
	Save	When the "Save" button is pressed, any changes that have been made are saved in the database.
	Close	Closes the current page.

Ticket header texts

The texts entered here are printed at the beginning of any printout. Lines containing no characters are not printed out.

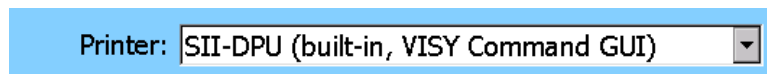


The screenshot shows a blue header bar with the date and time '2010-06-08 13:03:06' on the left, 'System Status: OK' in the center, and the FAFNIR logo on the right. Below the header is a section titled 'Printer options'. It contains four text input fields labeled 'Ticket header L1:' through 'L4:'. The first three fields contain the text 'Test Petrol Site FAFNIR', 'Bahrenfelder Strasse 19', and '22765 Hamburg' respectively. The fourth field contains a series of dashes '-----'.

Figure 29: Example of ticket header printout texts

To enter text, touch one of the text input fields to display a keypad. Each line can contain a maximum of 32 characters. Edited text can be saved by pressing the Save button.

Printer selection



The screenshot shows a blue bar with the label 'Printer:' followed by a dropdown menu. The selected option is 'SII-DPU (built-in, VISY Command GUI)'.

Two printer options are available:

- SII-DPU (built-in, VISY Command GUI): this printer option should be selected for printing out from the built-in ticket printer of VISY-Command GUI
- Bixelon (external, VISY View Touch): this printer option should be selected if the external standard printer of VISY-View is connected.

Delivery autom. printout

Deliveries are printed out automatically if the checkbox has been checked.

The checkbox can be checked or unchecked by touching the checkbox itself or its option label.

Delivery short printout

Deliveries are printed out in short form if the checkbox has been checked.

The checkbox can be checked or unchecked by touching the checkbox itself or its option label.

```

Delivery detail 2010-06-08 13:07
Tank 5 Premium
Start date: 2010-06-08 09:39:03
Stop date: 2010-06-08 09:41:15
Volume TC: 5518.1 Litres
Start Vol.TC: 3798.7 Litres
Stop Vol.TC: 9316.8 Litres
Volume: 5521.8 Litres
-----
  
```

Figure 30: Delivery data printout in short form

Alarms autom. printout

Alarms are printed out automatically if the checkbox has been checked.

The checkbox can be checked or unchecked by touching the checkbox itself or its option label.

Control panel

Main window -> System functions -> Configuration -> Ctrl panel

This function opens the standard Windows CE control panel.

The default parameters defined here affect the workings of the entire system and should not be changed without an exact understanding of the consequences of these changes. This requires expert knowledge. Without it, the functions of the control panel must not be used. (See also "Save Ctrl".)

Save Ctrl

Main window -> System functions -> Configuration -> Save Ctrl

This function is for permanently saving any changes made in the control panel.

Unless the "Save Ctrl" button is pressed, all the changes made in the control panel will be lost the next time the display module is restarted.

4.10.3 Touchscreen cleaning mode

Main window -> System functions -> Configuration -> Clean

This function enables the touchscreen to be cleaned for a defined period (approximately 15 seconds).

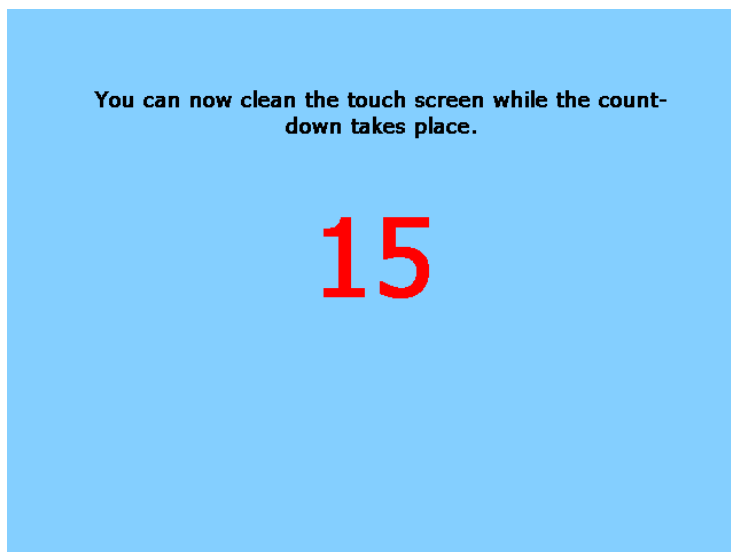


Figure 31: Touchscreen cleaning mode, display showing time remaining

The cleaning period is counted down second by second until a farewell message tells the user that the cleaning period has elapsed.

Cleaning mode makes it possible to clean the touchscreen without triggering other functions inadvertently.

4.11 Home button



Main window -> Home button

The Home button acts as a “parking position” when closing system functions. This prevents other functions from being opened accidentally.

5 Software revision

Rev.	Description	Date
1.0	First version of VISY-SoftView	2010-05-10

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