Technical Documentation



SECON-X SECON-Lev User Guide



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1 Overview

1.1 SECON-X system components

SECON-X is a hardware-software-network system which comprises several components (see figure below) and performs the following tasks:

- Global data access to the SECON-Clients with web interface
- Remote diagnostics
- Remote display, evaluation and data storage
- Universal data format



Figure 1: SECON-X system and components

SECON-Lev... is the operating software of the SECON devices with connection to the **VISY-X System.**



1.2 SECON-Lev and SECON-Lev+

SECON-Lev is the operating system of the SECON devices with connection to the **VISY-X System**, with which a precise and continuous filling level measurement in up to 16 tanks is carried out directly at the petrol station. The product temperature and the water level are gauged simultaneously.

SECON-Lev+ is an extension of the operating software for the SECON devices with which in addition all VISY-X environmental sensors are monitored and POS systems are connected.

The SECON device can be used as a supplementary device or as an alternative to a petrol station computer for displaying measured values. The SECON device is also suitable as a display for tank truck drivers for reading out the fill volumes in individual tanks before supplying the petrol station.

The measured values are displayed on a TFT colour screen. All functions are accessible using the touch screen user interface. Alarms are signalled visually by the display module and also audibly by a buzzer.

SECON-Lev... saves the measured values and the evaluations based on it locally in a database and in archive files. The data can be kept for 10 years+ and displayed on site. The measured values can be displayed locally on the SECON device as well as via a secure VPN connection (remote access). Stored values can also be called up via the secure VPN connection with web-DAV. The synchronisation can be used to compare the locally stored data also with a server.

To determine the average product density the pressure sensors VPS-T can be used in fuel tanks and the VPS-L in LPG tanks. The SECON devices and the VPS... pressure sensors are connected with the VISY-Command evaluation unit, see:

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Ţ	

Technical Documentation, SECON-Client, art. no. 350076

Technical Documentation, VISY-Command VI-4, art. no. 207184

Technical Documentation, VPS pressure sensors, art. no. 350204

After the installation or replacement of the sensors the VISY-Command evaluation unit must be configured with the VISY-Setup configuration program, see:



Technical Documentation VISY-Setup V4..., art. no. 207158

1.3 About this document

This documentation describes the functioning and operation of the SECON-Lev and SECON-Lev+ operating software as a local application on the SECON device, as well as the use by remote access via a web browser (USER clients).

For the configuration of the SECON-Lev... software, see:



Technical Documentation SECON-Lev Administrator, art. no.: 350136

For the installation and operation of the OpenVPN software for remote access, see:



Technical Documentation OpenVPN installation, art. no. 350199



1.4 Safety instructions

Operating software SECON-Lev... is intended for SECON devices. The software must be used exclusively for this purpose. Please observe and follow all product safety notes and operating instructions. The manufacturer accepts no liability for any form of damage resulting from improper use!

The SECON-X system has been developed, manufactured and tested in accordance with stateof-the art technology and recognised technical safety regulations. Nevertheless, the system may be a source of danger. The following safety precautions must be observed in order to reduce the risk of injury, 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 are in line with the technical requirements specified by the manufacturer.
- The installation, operation and maintenance of the SECON device, together with the SECON-Lev software, may only be carried out by expert personnel.
- Operators, fitters and service technicians must observe all applicable safety regulations. This also applies to any local safety and accident prevention regulations which are not stated in these operating instructions.



If these safety instructions are not observed, it may result in the risk of accident or damage to the SECON-X system.



The SECON touch screen may only be operated using a finger or a stylus designed for this purpose. The use of pointed objects (e.g. screwdrivers, pens) may cause damage to the touch screen.



Useful tips and information in this manual that should be observed are written in italics and identified by this symbol.



2 SECON-Lev... as local application

Certain functions may be activated or deactivated depending on what the software is being used for. In the case of the SECON-LEV, for example, the "VAPORIX" function is deactivated.



The lock symbol indicates an existing VPN connection.

2.1 Level

The individual products and tanks are shown in the main view "Level".

FAFNIR			09:38:38							
VAPORIX	LEVEL Environm		nental	History Configu		ition				
	LEVEL » Products									
Product	Product name		Tank	Сар	acity / L	Ullage / L				
Norma	Normal 92		1, 3, 4	77600		47610.8				
Super	Super 95		5	2	48500	36480.7				

Figure 2: Menu Level – Products

FAFNIR		09:39:14	1		
VAPORIX	LEVEL	Environmental	History	Configuration	
	Products	; I »	all Tanks		
Tank	all Tanks	ank 2		Taul: 4	
	Tank 1				
Normal 4411.9	Tank 3	urmal 9 258.6	2 L	Normal 92 14198.4 L	
	Tank 4				
Tank	Tank 5				
Super 9 11953.3	95 L				

When a tank is selected (e. g. tank 4), further details are displayed, see Figure 4.

Figure 3: Menu Level – All tanks



LEVEL » Tank 4 » Details	
+ → Deliveries	
Product	Measurement values
	Volume 14122.9 L
	Volume TC 13878.5 L
	Ullage 24677.1 L
	Level 959.2 mm
	Temperature 29.2 °C
Normal 92	Water level 0.0 mm
	Density - g/L
14122 9 T.	Density TC – g/L
14122.7 12	Sump density - g/L
	Sump density IC - g/L
Alarms	Configuration
No active records/alarms in the database.	Nominal vol. 40000 L
	Capacity 38800 L
	Safety vol. 1200 L
	Product Normal 92
	Comp. Temperature 15.0 °C

Figure 4: Tank 4

If you click on the PLUS sign beside "Deliveries", the delivery details are shown for the selected tank (see figure below):

		\rightarrow Deliveries						
		Start date	Stop date	TC Volume / L	Volume / L	^		
	-	2013-09-02 18:34:44	2013-09-02 18:45:18	27579.3	28269.8			
			Delivery	details				
			Start d	ate 2013-09-02 18:34:44				
			Stop d	ate 2013-09-02 18:45:18				
		TC Volume 27579.3 Litres						
	Start Vol.TC 10941.9 Litres							
			Stop Vol.	TC 38521.2 Litres				
			Volu	me 28269.8 Litres				
			Start Volu	me 10840.1 Litres				
			Stop Volu	me 39109.9 Litres				
			Start Temperat	ure 7.3 °C				
			Stop Temperat	ure 27.3 °C				
			Change in Temperat	ure 20.0 °C				
			Start Product le	vel 789.4 mm				
			Stop Product le	vel 2359.4 mm				
			Change in Prod.Le	vel 1570.0 mm				
			Start Water le	vel 0.0 mm				
			Stop Water le	vel 0.0 mm				
			Change in Water Le	vel 0.0 mm				
		2013/00/02 05:35:21	2013 00 02 05:42:56	21475.4	21804.5			

Figure 5: Tank 4 – Deliveries – Details



2.2 History

The stored delivery data for individual tanks and alarms (active and inactive) are displayed under the "History" menu option.

FAFNIR		09:4	2:03	}		
VAPORIX	LEVEL	Environmenta	al	History	Configura	tion
		History	»	Deliverie	s	
				LEVEL-A	larms	
Select Options Year-Month / Tai	nk	2013-09 🔽		Tank 1 🗸	sh	w

Figure 6: History

2.2.1 Deliveries

In the case of deliveries, individual months and individual tanks can be selected.

FAFNIR			0	9:43:38				
VAPOR	IX	LEVEL	Environme	ntal His	tory	Configura	tion	
	History » Deliveries							
Select Year-Moi	Option 1th / Ta	s nk	2013-09 🗸	Tank 3	} ~	sh	ow	
	Tank	Product	Start date	Stop date		TC Volume / L	Volume / L	^
- /	3	Normal 92	2013-09-03 04:05:51	2013-09-03 04:	10:46	10784.3	11022.6	
				Delivery det	ails			
	Start date 2013-09-03 04:05:51 Stop date 2013-09-03 04:10:46 TC Volume 10784.3 Litres Start Vol.TC 8164.0 Litres Stop Vol.TC 18948.3 Litres					09-03 04:05:51 09-03 04:10:46 1.3 Litres 0 Litres 1.3 Litres		
	Volumo Start Volumo Stop Volumo					4 Litres 0 Litres		
	Start Temperature Stop Temperature					c c		
	Start Product leve					mm 7 mm		
			Chan	ge in Prod.Level Start Water level	733.7 52.0 n	mm nm		
			1	Stop Water level	57.1 n	nm		×

Figure 7: History – Deliveries



2.2.2 Level alarms

Alarms generated by the VISY-X system are displayed as follows:



The yellow alarm symbol indicates a warning.

The red alarm symbol indicates an error.

⁷ The grey alarm symbol indicates that the status cannot be requested.

In the menu, the user can choose between active and inactive alarms:

- Active alarms are confirmed or unconfirmed alarms that are currently available
- Inactive alarms are expired alarms that have been cancelled by the system

AFN	JIR		09	:44:22	
VAP	ORIX	LEVEL	Environmen	tal History Co	figuration
			History » L	EVEL-Alarms » Active	
No.	Tank	Ala	rm type	Start date	Confirmed
10	5	Water Alarm: Water h	iigh	2013-09-02 23:02:53	2013-09-03 07:57:21
9	5	Product Alarm: Product high		2013-08-19 09:46:47	2013-08-19 09:47:31
8	4	Product Alarm: Product high		2013-08-13 15:09:47	2013-08-13 15:09:54
7	5	Product Alarm: Produ	uct high	2013-08-13 10:50:16	2013-08-13 12:19:29
6	16	Product Alarm: Produ	uet low	2013 08 08 22:47:55	2013 08 09 08:00:57

Figure 8: History – Active alarms



2.3 Configuration

2.3.1 Info

The following sub-menus are displayed in the *Configuration* » Info menu option:

- Station data
- Software version
- Software licence
- Network IP address
- Route table
- VPN

FAFNIR				
VAPORIX LEVEL	Environmental	History	Configuration	
	Station in	nfo	Information	
N	Software	Version	Settings	
IN ame	Software	License	Tools	
internal no.		.	23	
name	current I	P Address	աւոր	
street			sstr. 19	
postal code	Route Ta	ible	2143	
city			IH	
country	VPN		chland	
state		Error (2013-09-02 15:01:05)		
latitude	599993			
longitude		10.169206		

Figure 9: System info



Station data

The configured address, the geographical coordinates and the global status of the station are displayed in this table.

FAFNIR					
VAPORIX LEVEL	Environmental History Configuration				
C	onfiguration » Information » Station info				
	Device				
Name	NESO01				
	Station				
internal no.	23				
name	Klausµ				
street	Klausstr. 19				
postal code	D-22143				
city	НН				
country	Deutschland				
state	Error (2013-09-02 15:01:05)				
latitude	53,599993				
longitude	10.169206				

Figure 10: Info – Station data

The "State" status is equivalent to the alarm messages and is displayed here in the colours green (OK), yellow (warning) and red (error).

Software version

FAFNIR							
VAPORIX	LEVEL	Environmer	ital I	History	Configuration		
	с	onfiguration » b	ıformation	» Softwa	re Version		
	Name				Software Version		
	SECON			unknown			
	GUI			2.0.0.110			
	Translation			0.0.1			
	Fafnir			0.0.1			
	Intem-Atg			1.0.2.0			
	Extern-Atg			1.0.2.0			
Dispatcher				1.0.1.0			
Alarm-Manager				1.0.0.1			
	Vaporix				1.0.0.1		

Figure 11: Info – Software version



Software licence

The menu option *Configuration* » Info » Software licence is not supported as yet.

FAFNIR		09:45:24					
VAPORIX	LEVEL Environmental History Configuration						
Configuration » Information » Software License							
		Software I	license				

Figure 12: Info – Software licence

Network IP address

The current data and configurations for the local network connection are displayed here. The local connection and the VPN interface must be active in order to ensure that the system can be accessed externally.

FAFNIR	09:45:45		
VAPORIX LEVEL	Environmental History	Configuration	
Cor	figuration » Information » current IP	Address	
Name	Value		
Interface	eth0		
IP	192.40.50.228		
MAC	00:07:8E:14:75:14		
Bcast	192.40.50.255		
Mask	255.255.255.0		
RX Bytes	606832346 (578.72 MiB)		
TX Bytes	587549180 (560.33 MiB)		

Figure 13: Info – Network IP address

Route table

The routing IP addresses are listed here.

FAFNIR 09:45:50				
VAPORIX LEVEL	Environmental History Configuration			
destination	Gateway	Genmask	Iface	
10.0.8.1	10.0.15.246	255.255.255.255	tun0	
10.0.15.246	0.0.0.0	255.255.255.255	tun0	
192.40.50.0 0.0.0.0		255.255.255.0 eth0		
10.0.8.0	10.0.15.246	255.255.248.0	tun0	
0.0.0.0	192.40.50.2	0.0.0.0	eth0	

Figure 14: Info – Route table



VPN

The current data and configurations for the virtual private network (VPN) are displayed here. The interface must be active in order to ensure that the system can be accessed externally.

FAFNIR					
VAPORIX LEVEL	Environmental History Configuration				
	Configuration » Information » VPN				
Name	Value				
Interface	tun0				
IP	10.0.15.245				
P-z-P	10.0.15.246				
Mask	255.255.255				
RX Bytes	118275958 (112.80 MiB)				
TX Bytes	371914368 (354.69 MiB)				

Figure 15: Info – VPN



3 Remote access

3.1 Connection to the SECON-server

3.1.1 Requirements

(B)

Remote access from the user clients (PC/laptops) to the SECON-Server takes place via a secure VPN network connection. This requires the installation of the Open-VPN software on the PC used.



For remote access, "Mozilla Firefox" or "Opera" are the preferred browsers. Full functionality may be restricted with other browsers.

To install the OpenVPN software, see the technical documentation:



SECON-X OpenVPN installation, art. no. 350199

3.1.2 VPN connection

A secure VPN connection (TLS) is used for remote access, i.e. all the data is encrypted.

- (1) Start the program "OpenVPN GUI"
- (2) The VPN connection is created by right clicking on the "OpenVPN GUI" symbol on the Windows taskbar and selecting "Connect"



When a connection is successfully created, the colour of the "OpenVPN GUI" symbol in the Windows taskbar changes from red to green.



3.1.3 Browser

The home page for the SECON-Server can now be called using the web browser. To do this, enter the allocated IP address in the address line of the browser.

3.1.4 SECON-Server home page

FAF	NIR	Welcome to SECON-Server	Choose	🗧 🔝 💳 👂
View	History Configurat	tion Information		
		Your Objects		
No.	Internal Id	Address	Status	Online
1	9 / 8008-40-887	AT 75 MIL George Stree TA, 1717. Smolth German	ок	connect
© FAFNIR G	SmbH - Sensors A Systems Balton reds	Strate G 1 29:05 Hamburg I Tel. +49 40 / 39 82 07-0		

Figure 17: SECON-Server home page

A table showing the configured petrol stations is displayed on the home page of the SECON-Server. Using Google Maps, the petrol station locations can also be displayed on a map.

Table view

In table view, all the petrol stations are displayed with their number, name, address, status and network connection:

No.:	Sequential number
Internal ID:	Internal petrol station number (see SECON-Lev configuration)
Address:	Petrol station address
Status:	Status of the SECON-Lev
	(if the user hovers over this with the mouse, a data table is displayed)
Online:	The network connection is displayed with "-" (not connected) or "connect-"
	(connected)

The connection to the individual petrol stations is created by clicking on "*connect*". To obtain access to the petrol stations, a password must be entered (see section "Verification").



Google Maps / Full screen view

In order to display the petrol station locations on a map, select the menu option "View – Google Maps" or "View – Full screen".

Each individual pin represents a petrol station. A jumping pin indicates that the petrol station is online and that it can be accessed by clicking on it.

The colour indicates the status:

- Green: OK
- Yellow: Warning
- Red: Error



Figure 18: Station locations

In order to obtain detailed information regarding the petrol stations, all the user needs to do is to point at the relevant pin with the mouse. This opens a pop-up window showing further details.

Double clicking (left mouse button) on a pin creates a direct connection to the selected petrol station. To do this, a password must be entered (see next section).

In full screen view, the Google map is displayed without any further SECON menu bars.

The normal view is restored by clicking the Back button in the address line of the browser.



3.2 Connection to the SECON device (SECON-Client)

The connection to a SECON device is established via the home page of the SECON-Server. To do this, select the SECON device of a petrol station with a click on the corresponding button "*connect*":



Figure 19: SECON-Server home page

This is followed by a request for a password for the verification of the user:

Weiterleitung Sollten Sie nicht automatisch weitergeleitet werden, klicken Sie bitte hier.
Forwarding
If your browser is not redirected automatically, please click here. <u>SECON</u>
Authentication Required
A username and password are being requested by http://192.40.50.146. The site says: "SECON-X"
User Name:
Password:
OK Cancel

Figure 20: Verification

User name:	fafnir
Password:	fafnir22766

If the verification is successful, you will go to the SECON device of the selected petrol station by remote access.



Ē

The data shown by remote access is identical to the data in the display of the SECON devices (see chapter 2).

FAFNIR	23 / NE	Welco	me to S	ECON-X	© Cho	ose your language
	V	APORIX	Environmen	tal History	Information	
			Part	0.0		
LEVEL	1.00			LEVEL » all Tanks		
[Tank	Measureme	ent values	Configuration	
Report		Tank 1	Volume	4092.9 L	Nominal vol.	10000 L
[Products		The second secon	Volume TC	4014.5 L	Capacity	9700 L
Troucis		100	Ullage	5607.1 L	Safety vol.	300 L
all Tanks	1	Normal 92	Level	1071.5 mm	Product	Normal 92
		4092.9 L	Temperature	30.7 °C	Comp. Temperature	15.0 °C
Tank 1 'Normal 92'			Water level	55.8 mm		
Tank 3 'Normal 92'	i -	Tank 3	Volume	10318.9 L	Nominal vol.	30000 L
		TT	Volume TC	10104.5 L	Capacity	29100 L
Tank 4 'Normal 92'		Narmal 02	Ullage	18781.1 L	Safety vol.	900 L
	2	10218.0.1	Level	940.5 mm	Product	Normal 92
Tank 5 'Super 95'		10310.9 L	Temperature	32.0 °C	Comp. Temperature	15.0 °C
	ש		Water level	57.2 mm		
		Tank 4	Volume	12840.2 L	Nominal vol.	40000 L
			Volume TC	12613 3 1	Capacity	388001

Figure 21: Remote access to the SECON device - Menu level

3.2.1 Menu Level

Report, products and tanks can be selected in menu "Level".

Report

The report provides a brief overview of the most important tank data

Report (LEVEL)								
date:	2013-09-03 10:00:26							
Station:	Klausstr. 19, D-22143, HH, Deutschland.							
Tank	Measurement values		Configuration					
	Volume	4252.3 L	Nominal vol.	10000 L				
	Volume TC	4171.7 L	Capacity	9700 L				
,	Ullage	5447.7 L	Safety vol.	300 L				
1	Level	1102.5 mm	Product	Normal 92				
	Temperature	30.5 °C	Comp. Temperature	15.0 °C				
	Water level	55.8 mm						

Figure 22: Level – Report



Products

In "Products" view, a summary, which is broken down by product, is displayed.

FAFNIR Welcome to SECON-X 23 WE3001 Kite sp. Klausstr. 19, D-22143, HH, Deutschland. VAPORIX							
					-		
LEVEL			LEVEL » Produ	cts			
	Product name	Color	Tank	Capacity / L	Ullage / L		
Report	Normal 92		1, 3, 4	77600	48876.4	L 4 1	
Products	Super 95		5	48500	36963.1		

Figure 23: Level – Products

All tanks

In "All tanks" view, a summary, which is broken down by tank, is displayed.

						Contraction of the second s	
		VAPORIX LEVEL	Environmental	History	Information	particular and	
	-				All and a second se	200000000000000000000000000000000000000	
CEVEL	LEVEL » all Tanks						
		Tank	Measurement	values	Configuration		
1000		Tank 1	Volume 37	42.6 L	Nominal vol.	10000 L	
		T	Volume TC 36	69.5 L	Capacity	9700 L	
000			Ullage 59	57.4 L	Safety vol.	300 L	
	1	Normal 92	Level 10	01.5 mm	Product	Normal 92	
all Tanks		3742.6 L	Temperature 31	.0 °C	Comp. Temperature	15.0 °C	
Provide States			Water level 55	.8 mm	· · · · · · · · · · · · · · · · · · ·		
Taink 1 - Rormal 92							
Test 2 Missing (00)		Tank 2	Volumo 82	95.21	Nominal vol	200001	

Figure 24: Level – all tanks

Individual tanks

When individual tanks are selected, the relevant window, which contains further details, is opened (showing an alarm as an example in this case):

	VAPORIX LEVEL Environm	ental History Inform	nation
	LEVEL	» Tank 5 'Super 95' » Details	•
	Product	Measurement values	Configuration
Кероп		Volume 11536.9 L	Nominal vol. 50000 L
Products		Volume TC 11340.7 L	Capacity 48500 L
		Ullage 36963.1 L	Safety vol. 1500 L
all Tanks		Level 703.6 mm	Product Super 95
		Temperature 29.2 °C	Comp. Temperature 15.0 °C
Tank 1 'Normal 92'	Super 95 Product high	Water level 84.4 mm	
		Density - g/L	
Tank 3 'Normal 92'	11536.9 L	Density TC - g/L	
		Sump density - g/L	
Tank 4 'Normal 92'	Alarm /	Sump density TC - g/L	
Tank 5 'Super 95'	Water level high		
	84.4 mm		
	\blacksquare \Rightarrow Alarms		

Figure 25: Tank Details



Details for alarms and deliveries are shown by clicking on the Plus sign:

⇒ Alarms							
Active Alarms							
Alarm type	Start date	Ack Date					
Water Alarm: Water high	2013-09-02 23:02:53	2013-09-03 07:57:21					
Product Alarm: Product high	2013-08-19 09:46:47	2013-08-19 09:47:31					
Product Alarm: Product high	2013-08-13 10:50:16	2013-08-13 12:19:29					

Figure 26: Tank Details – Alarms

■ ⇒ Deliveries										
	Start date	Stop date	TC Volume / L	Volume / L						
_	2013-09-03 00:48:58	2013-09-03 00:54:31	20098.4	20329.0						
	Delivery details									
	Start date 2013-09-03 00:48:58									
		Stop date	2013-09-03 00:54:31							
	TC Volume 20098.4 Litres									
		Start Vol.TC	10876.8 Litres							
		Stop Vol.TC	30975.2 Litres							
		Volume	20329.0 Litres							
		Start Volume	11036.6 Litres							
		Stop Volume	31365.6 Litres							
		Start Temperature	27.1 °C							
		Stop Temperature	25.4 °C							
		Change in Temperature	-1.7 °C							
		Start Product level	681.3 mm							
		Stop Product level	1501.7 mm							
		Change in Prod.Level	820.5 mm							
		Start Water level	80.3 mm							
		Stop Water level	84.3 mm							
		Change in Water Level	4.0 mm							
-										

Figure 27: Tank Details – Deliveries

3.2.2 History

Downloads

This menu provides central access to history data for the activated services which can be downloaded in xml format for further processing. To do this, select your application (e.g. Level) in order to obtain access to the history data of the SECON device. The data is identical to the history data of the SECON device.

	VAPORIX L	EVEL Environmental		History	Information
History		Hist	tory »	Downloads	
Downloads	Index of /Archive/De	ownloads/			
	Name	Last Modified	Size	Туре	
Jenvenes	Parent Director	y/	-	Directory	
	Level/	2013-Aug-08 13:07:15	-	Directory	
LEVEL-Alarms	Pressure/	2013-Aug-08 13:07:15	-	Directory	
APORIX-Alarms	Vaporix/	2013-Aug-26 11:47:24	-	Directory	

Figure 28: History – Downloads



Deliveries

In the case of deliveries, individual months and individual tanks can be selected and displayed by pressing the "Display" button.

By pressing Reset, the selection criteria for the data displayed last are restored. The report generates a view which is optimised for printer output.

	VA	PORIX	λ	LEVEL	Environmental	History Inf	ormation		
History					History	» Deliveries			
Downloads		Sel	ect Optic	ons (Year-Month	/ Tank)	2013-09	Tank 4 💌		
Deliveries				Reset		show	Report		
LEVEL-Alarms									
VAPORIX-Alarms		No.	Tank	Product	Start date	Stop date	TC Volume / L	Volume / L	^
Pressure report		4	4	Normal 92	2013-09-02 18:34:44	2013-09-02 18:45:18	27579.3	28269.8	
					Deliv	very details			
					Start	date 2013-09-02 18:34	:44		
					Stop	date 2013-09-02 18:45	:18		=
					TC Vol	ume 27579.3 Litres			
					Start Vo	I.TC 10941.9 Litres			
					Stop Vo	I.TC 38521.2 Litres			
					V0I Start Vol	ume 10840 1 Litres			
					Stop Vol	ume 39109.9 Litres			
					Start Tempera	ture 7.3 °C			
					Stop Tempera	ture 27.3 °C			
					Change in Tempera	ture 20.0 °C			
					Start Product I	evel 789.4 mm			
					Stop Product I	evel 2359.4 mm			
					Change in Prod.L	evel 1570.0 mm			
					Start Water I	evel 0.0 mm			
					Change in Water I	evel 0.0 mm			
		0		Namel 00		0040.00.00.05.40.50	04.475.4	04004.5	

Figure 29: History – Deliveries

Level Alarms

With this menu option, the history of alarms is listed, sorted by date.

The type of display can be selected broken down by active, inactive or all alarms.

	VAPOR	IX	LEVEL Enviro	onmental	History	Information	
History				History »	LEVEL-Alarms		
lownloads		0.00	Select Options (Alarm type))	All	~	
eliveries			Reset		show		
EVEL-Alarms							
/APORIX-Alarms	No.	Tank	Alarm type		Start date	Confirmed	Stop date
ressure report	1019	3	Probe status: comms error	201	13-09-03 00:45:47	-	2013-09-03 00:45:57
	1018	5	Water Alarm: Water high	201	13-09-02 23:02:53	2013-09-03 07:57:21	-
	1017	1	Product Alarm: Product hig	jh 201	13-09-02 22:08:15	2013-09-03 07:56:46	2013-09-03 00:05:20
	1016	6	Mator Alarm: Mator bigh	201	12 00 02 22:00:05	2012 00 02 07:56:47	2012 00 02 22:02:45

Figure 30: History – Alarm Level



3.2.3 Info

The "Info" menu option in remote access is equivalent to the "Info" menu item of the SECON device (see chapter 2.3.1 Info).

FAFNIR	23 / HEPOD1: Kiausu, Klausstr. 19, D-221-	nen bei SECON-X	Choo	se your languag	
	VAPORIX LEVEL	Umwelt-Sensorik Historie	Info		
			Stationsdaten		
шю	2	Info » Stationsdaten	Software-Version		
		Gerät	Software-Lizenz		
Stationsdaten	Name		NESO01		
Software-Version		Tankstelle			
	internal no.		23		
	name		Klausµ		
	street		Klausstr. 19		
	postal code		D-22143		
	city		HH		
	country		Deutschland		
	state	Error (2	(2013-07-31 07:11:28)		
	latitude		53.599993		
	longitude		10.169206		

Figure 31: Info – Station data

FAFNIR	23 /NE2001, Klausu, K	likomm Klausstr. 19, D-22143	HH, Deutschland.	CON-X		Choose your language	2
	VAPORIX	LEVEL	Umwelt-Sensorik	Historie	Info		
Info			info »	Software-Version			
[1	Name			Software-Vers	ion	
Stationauten	9	GUI			2.0.0.100		
Software-Version		Translatio	n		0.0.1		
Software-Lizenz		Fafnir			0.0.1		
		Intern-Atg			1.0.2.0		
		Extern-Ate	1		1.0.2.0		
		Dispatche	r		1.0.1.0		
		Alarm-Mana	ger		1.0.0.1		
		Vaporix			1.0.0.1		

Figure 32: Info – Software version

FAFNIR	23 / NESO01, Kiausu, K	Ikomn Iausstr. 19, D-2214	nen bei SE	CON-X		Choose your language
	VAPORIX	LEVEL	Umwelt-Sensorik	Historie	Info	
Info			Info »	Software-Lizenz		
Software-Lizenz	Su PARAIN Smith Cal Shink Info Shith S	nsors & Systems I - IF actilizate Hinwas	Soft Bahrenfelder Skraße 19 I 22765 H	vare-Lizenz Iamburg I Tel. +49.40 / 3	9 82 07-0	

Figure 33: Info – Software licence



3.3 Data download via webDAV

The data of the SECON-Vap+ can be integrated as drive into the operating system via the webDAV protocol. Here you are using the option of the operating system which normally of-fers support for webDAV. If this is not the case, or problems with connection occur, also external webDAV clients can be used.

Address:http://IP.ADDRESS.OF.SECON-Vap+/webdavPort:80User:webdavPassword:webdav22765

After the connection, a directory structure can be opened in the file manager of the operating system. Based on the basic directory the topology of the directory is displayed as follows.



0 n	Folder for data arranged according to pressure sensor positions.
yyyy, mm, dd	Placeholder for the number of the year, month and day of the month.
xml	File is available in XML format.
tar	File is available as tar archive and must be unpacked.

Figure 34: Directory structure of webDAV



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