Technical Documentation



SECON-X

SECON-Lev Administrator

FAFNIR	Velcome to SECON-X					
	VA	PORIX LEVEL	Environmental	History	Information	
	-				The second s	
LEVEL » all Tanks						Dav
I AREA		Tank	Measurement	values	Configuration	
		Tank 1	Volume TC 436	5.2 L	Nominal vol. Capacity	10000 L
Products			Ullage 533	4.8 L	Safety vol.	300 L
all Tanks	1	Normal 92	Level 112	5.2 mm	Product	Normal 92
		4303.2 L	Temperature 13.6	5°C	Comp. Temperature	15.0 °C
Tank 1 'Normal 92			VVater level 0.0	mm		
Tank 2 'Normal 92'		Tank 2	Volume 739	5.5 L	Nominal vol.	20000 L
			Volume TC 744	3.9 L	Capacity	19400 L
Tank 3 'Normal 92'	2	Normal 92	Ullage 120	04.5 L	Safety vol.	600 L
	2	7395.5 L	Level 992	.3 mm	Product	Normal 92
Tank 4 'Normal 92'			Water level 0.0	mm	Comp. Temperature	15.0 C
Tank 5 'Super 95'						
		Tank 3 🚃	Volume 193	60.9 L	Nominal vol.	30000 L
Tank 6 'Super 95'			Volume TC 194	87.6 L	Capacity	29100 L
		(Normal 02)	Ullage 973	9.1 L	Safety vol.	900 L

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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 the 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... stores 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:

\sim

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 configuration of the SECON-Lev and SECON-Lev+ operating software as local application on the SECON devices (SECON-Clients), as well the remote access via a web browser (USER-Clients).

To operate the SECON-Lev... software, see:



Technical Documentation SECON-Lev User Guide, art. no.: 350111

For the installation and operation of the OpenVPN software (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

2.1 Configuration - Settings

In the Configuration » Settings menu, the SECON can be configured for the particular prevailing conditions: Tank truck display, language, services, alarm volume, network VPN, WLAN, 3G/UMTS, screen calibration, via browser.



Figure 2: Configuration - Settings

The lock symbol indicates an existing VPN connection.

The yellow alarm indicates a warning.

The red alarm symbol indicates an error.

2.1.1 Login

For configuration outside the tank truck display, login is required:

User:	admin
Password:	vap22765



After 5 minutes, if no configuration changes are made, access is automatically blocked.



2.1.2 Virtual keyboard

 Reset
 Save

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 Figure 3: Configuration – Virtual keyboard
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When the user touches an empty field, a virtual keyboard is displayed automatically.

5 5 7

2.1.3 Tank truck display

With the Tank truck display function, an automatically changing display is shown for all the tanks, with their available space as well as a tank truck symbol.



Figure 4: Configuration – Tank truck display

2.1.4 Language

Select your language here.



Figure 5: Settings – Language



2.1.5 Services

The available services can be activated or deactivated here. Depending on the setting for these services, the appropriate menu options are shown.

FAFNIR		12:16:1	.0		
VAPORIX	LEVEL	Environmental	History	Configuration	
		Configuration » S	ettings » Serv	ices	
		VAPORI	IX		
		LEVEL			
	Re	set		Save	

Figure 6: Settings – Services

2.1.6 Alarm volume

The volume of the integrated loudspeaker can be changed here.

	12:16:18			_
LEVEL	Environmental	History	Configuration	
	Configuration » Setting	s » Alarm '	Volume	
	alarm volu	ште		
		50 %		
	LEVEL	12:16:18 LEVEL Environmental Configuration » alarm volu () <th>LEVEL Environmental History Configuration » Settings » Alarm alarm volume image: state s</th> <th>LEVEL Environmental History Configuration Configuration » Settings » Alarm Volume alarm volume () 50 %)</th>	LEVEL Environmental History Configuration » Settings » Alarm alarm volume image: state s	LEVEL Environmental History Configuration Configuration » Settings » Alarm Volume alarm volume () 50 %)

Figure 7: Settings – Alarm volume



2.1.7 Network configuration

The network can be configured automatically. To do this, select the "Automatic configuration" option and confirm by pressing the <Save> button.

FAFNIR		12:16:29					
VAPORIX	LEVEL	Environmental	History	Configuration			
		Configuration » Set	tings » Netw	ork			
	 Automatic Configuration (via DHCP) Manual Configuration 						
	Res	et		Save			

Figure 8: Settings – Network – Automatic configuration

Network configuration is set to DHCP by default.

With this configuration, the client calls up the IP address from the DHCP server directly. A functional DHCP server must be available in the network for this.

The network can be configured manually. For this, please contact your network administrator. To do this, select the "Manual configuration" option, enter the appropriate network data and confirm by pressing the <Save> button (for an example, see the figure below).

Configuration » Settings » Network						
 Automatic Configuration (via DHCP) Manual Configuration 						
IP Address:		192.40.50.228				
Subnet Mask:		255.255.255.0				
Default Gateway:		192.40.50.2				
Primary DNS-Server:		192.40.50.6				
Secudary DNS-Server:		192.40.50.9				
Reset		Save				

Figure 9: Settings – Network – Manual configuration



2.1.8 VPN

The network data for the VPN connection are entered here. For this, please contact your network administrator (for an example, see the figure below).

F	AFNIR		12:17:1	2			
	VAPORIX	LEVEL	Environmental	Hist	ory	Configuration	on
			Configuration »	Settings	» VPN		
		VPN-Server	IP Address:		217.114	1.65.194	
		VPN	-Server Port:		1194		
			Protocol:			UDP 💌	
		Res	et			Save	

Figure 10: Settings – VPN

2.1.9 WLAN

The WLAN function is currently not supported with an internal module.

FAFNIR		12:17:21			
VAPORIX	LEVEL	Environmental	History	Configuration	
		Configuration » Settings	» WLAN		?
		Error			x
Can not o Required	configure WiFi. hardware not f	ound.			
		SSIB:			
		BSSIB:			
		IP: -			
	Connect	Scar	1	Disconnect	

Figure 11: Settings – WLAN



2.1.10 3G/UMTS

The 3G/UMTS function is currently not supported with an internal module.

FAFNIR		12:17:30)		
VAPORIX	LEVEL	Environmental	History	Configuration	
	С	onfiguration » Settings	» 3G/UMTS		?
		Error		X	
Can not o Required	configure 3G / UN hardware not for	MTS. und.			
	Connect	Config	gure	Disconnect	

Figure 12: Settings – 3G/UMTS

2.1.11 Screen calibration

The touchscreen precision is calibrated here.

Press the <Start> button and touch the 5 calibration crosses using the touchscreen stylus.



If calibration is not performed correctly, it may become impossible to use the touchscreen!

FAFNIR		12:17:49			_
VAPORIX	LEVEL	Environmental	History	Configuration	
	I	Configuration » Settings	» Screen (alibration	
Scree	n Calibration			Start	

Figure 13: Settings – Screen Calibration



2.1.12 Browser

Station data and pressure sensors can only be configured via a web browser and a network connection with a PC/laptop that is connected to the SECON device.

- If this has not been done already, connect the SECON device and PC/laptop with an RJ45 network cable.
- In menu item Browser on the SECON device enter the IP address of your PC/laptop (see figure below). To determine the IP address for your PC laptop, simply enter the Windows command "ipconfig".

Configuration	» Settings » via Browser ?
SECONs IP Address:	192.40.50.228
Laptops/PCs IP Address:	192.40.50.
Reset	Start

Figure 14: Settings – Via browser

- Save the configuration by clicking on the <Start> button.
- This is then confirmed with the https-IP address that can be used to set up a connection to the SECON device via a browser (see figure below).

Configuration » Settings » v	ia Browser ?
Information: The configuration has been saved successfully.	
Information: Now you can configure this SECON by browser. The SECON can be reached at the following address: https://192.40.50.228	
SECONs IP Address:	192.40.50.228
Laptops/PCs IP Address:	192.40.50.52
Reset	Stop

Figure 15: Settings – Via browser – Confirmation

The IP address for the PC/laptop must not be the same as the IP address for the SECON. The configuration process may only be carried out from a single PC/laptop. During configuration, a tool symbol is shown on the display. Configuration must be completed by pressing the "Stop" function key.



2.1.13 Configuration wizard

With the web browser of a PC/laptop that is connected to the SECON, the following data can be configured via the "Configuration wizard":

- Station data (address, etc.)
- Pressure sensors (device number, position, connection, fuelling points)

General Other SECON configurator menus have no functions as yet.

- (1) Establish the network connection described in chapter 2.1.12.
- (2) For access to the configurator, enter the https address previously determined in the address line of your browser.
- (3) In the password entry form, enter "admin" as the user and the password "Fafnir22765Altona" and confirm the entry.

FAFNIR	Konfiguration Anzeigen	Chouse jour ranguage
Konfiguration	Konfiguration » Wizard	
Wizard	Information	
Software Lizerz	Here you can configure this SECON in a few steps.	
	Reset	Next

Figure 16: Configuration wizard

(4) Start the wizard by clicking on the <Next> button.
 In the first wizard step, the station data is preset.
 The "**Pressure**" function is intended for the VAPORIX application.

		0.0	1548F	-
Konfiguration		Konfiguration » Wizard		
Wizard		Step 1 (Main) of 3		
Collumn Linner	Select Configuration-Opt	on(s)		
Software Lizenz		Station		
		Pressure		
		LEVEL		
	Back	Reset	Next	

Figure 17: Configuration wizard – Step 1



(5) In step 2, enter the station data (address, etc.)

FAFNIR	SECON Config	uration GUI	Choose your language
	Konfiguration Anzeigen		
Konfiguration		Konfiguration » Wizard	
		Step 2 (Station) of 3	
Wizard	SA STATES	Station	
Software Lizenz	Internal No	23	
	Name	Klausµ	
	Street	Klausstr. 19	
	Postalcode	D-22143	
	City	HH	
	Country	Deutschland	
		Geographic coordinates	
	Latitude	53.599993	
	Longitude	10.169206	
	Back	Reset	Next

Figure 18: Configuration wizard – Step 2



FAFNIR	to all		onfigura	ation GUI	Choose your language	
Kasfiguration	Noning Noning			-		
Konliguration	2		Ко	nfiguration » Wizard		
Wirrord			Step 3 ((Pressure sensor) of 3		
Wizard	Info: Stat	Info: Station-Settings successfully saved.				
Software Lizenz	1	100		Pressure sensor(s)		
	No.	Pressure-Id	Position	Fuelling point(s)	for monitoring	
	1	5020	0	1 🗹 2 🗹 5 🗹 6 🗹		
		Add new pro	essure sensor	Del last sensor		
		Back		Reset	Next	

(6) In step 3, enter the pressure sensor data, if previously selected.

Figure 19: Configuration wizard – Step 3

No:	Running number assigned by the program
Pressure-Id:	Device number
Position:	Logical position of sensor. During the exchange it should be ensured that the replacement sensor receives the same position, since the data will be continued independent of the changing device number.
Connection:	Type of connection. <i>Wireless</i> must be selected if the sensor is to be connected via a combination of VISY-RFT-L/VISY-RFR. If the sensor is wired via a VISY-VPI, the appropriate <i>VPI Ch[X]</i> channel must be selected.
Fuelling points:	Selection of the monitored fuelling points

(7) After the data has been entered and the <Next> button is pressed, a message is displayed confirming successful SECON configuration.

	Konfiguration Anzeigen
Konfiguration	Konfiguration » Wizard
Witard	Finish
UTILITY	Info: Pressure-Settings successfully saved
software there	Congratulations
	SECON-Configuration successfully completed III
	Back

Figure 20: Configuration wizard – Message confirming successful configuration



2.2 Configuration – Tools

The Configuration \gg Tools menu contains the following functions for checking the network connection: Ping, traceroute, name resolution, self-test, log files.

FAFNIR 14:24:32		👱 🔒 💥
VAPORIX LEVEL	Environmental History	Configuration
	Ping	Information
Tank 1	Traceroute	Settings
	Nslookup	Tools
3742.6 L	Selftest	35470.5 L
	Log-Ffiles	Alarm

Figure 21: Configuration – Tools

2.2.1 Ping

With this option, you can test the network connection by pinging the IP address entered using the virtual keyboard (for an example, see the figure below).



Figure 22: Tools – Ping



2.2.2 Traceroute

With the Traceroute tool, you can enter the destination address and then have the individual stations through which a packet passes to reach the destination address displayed (for an example, see the figure below).

FAFNIR		14:26:03		8	
VAPORIX	LEVEL	Environmental	History	Configuration	_
		Configuration » Too	ols » Tracer	oute	
		IP Address:	213.6	65.64.75	
	F	eset		Start	
1 2 3	4	5 6 7 8	9 0	. ←	С
traceroute to 213.6 1 192.40.50.2 0. 2 10.0.0.2 0.833 3 217.114.65.193 4 217.114.72.64 5 217.114.72.1 4 6 83.220.136.89 7 213.203.213.70 8 213.131.245.170 9 213.248.98 137	5.64.75 (213.65.0 814 ms 0.533 ms 0.697 ms 1.495 ms 1.8 38.038 ms 33 40.171 ms 47.8 55.000 ms 45 54.281 ms 1 0 60.043 ms 25.890 ms 1	54.75), 20 hops max, 38 byt ms 48 ms 988 ms 22 ms 183 ms 10.212 ms 29.714 ms 7.968 ms	e packets		

Figure 23: Tools – Traceroute

2.2.3 Name resolution

To determine whether the set DNS resolution is working properly, one of the available addresses can be resolved (for an example, see the figure below).

	Configuration » To	ools »	Nslookup
	destination:		fafnir.de
Res	et		Start
Server: 192.40.50.6 Address 1: 192.40.50.6 netmanager1vm. Name: fafnir.de	fafnir.de		
Address 1. 217.114.74.210 farmio1.nmm	n.net		

Figure 24: Tools – Name resolution



2.2.4 Self-test

In the self-test, a comprehensive system test is carried out and the results obtained are output in tabular form (for an example, see the figure below).

FAFNIR	14:26:3	5			
VAPORIX LEVEL	Environmental	History	Configuration		
	Configuration »	Tools » Selftest	t		
	Selftest:		Start		
	System info	rmation			^
Running processes		57			
Root-FS size		168.2M			
Root-FS use		88.7M(53%)			
Tmp-FS size		123.2M			
Tmp-FS use		1.1M(1%)			
	SD Ca	rd			
Status		mounted		OK	
size		3.7G			
use		128.8M(4%)			
	Netwo	rk			
LAN-Iface eth0		UP		ОК	
VPN-Interface		Configured		OK	
VPN-Interface		10.0.15.245		OK	
Default route		192.40.50.2		OK	
Nameserverl		192.40.50.6		OK	
Nameserver2		192.40.50.9		OK	
	Applicati	ions .			
App: Alarmmanager		running		OK	
App: Dispatcher		running		OK	
App: Level extern		running		OK	
App: Level intern		running		OK	
App: Local-GUI		running		OK	
App: VAPORIX		running		OK	
App: VPN		running		OK	
App: Web-Server		running		OK	*

Figure 25: Tools – Self-test



2.2.5 Log files

The "Time" monitors time synchronisation, the "Watchdog" monitors the ongoing processes. The results are saved and can be output in the log files (for an example, see the figures below).

FAFNIR		14:27:17	,			
VAPORIX	LEVEL	Environmental	History	Configuration		
Configuration » Tools » Log-Ffiles						
time	*	- Log-File		show		
correction: 2 hour(s 2013-08-29 17:09:25) main: stari	·				
2013-08-29 17:09:25 main: IP: econ-server-intern, iHours: 2						
2013-08-29 17:09:25 cLocalTime: start ===================================						
2013-08-29 17:09:25 execCmd: /usr/sbin/ntpdate -q econ-server-intern > /tmp/ntpdate_q ==> OK						
2013-08-29 17:09:25 cLocalTime: readFile: offset=-7190.994308						
2013-08-29 17:09:25 cLocalTime: setTime						
2013-08-29 17:09:25 cLocalTime: setTime: self.offset=-7190.994308, self.countryOffset=7200						
2013-08-29 17:09:35 execCmd: /bin/date -s 2013.08.29-17:09:35 ==> OK						
2013-08-29 17:09:35	execCmd: /sbin/	hwclocksystohc ==> OK				

Figure 26: Tools – Log file "Time"

FAFNIR		14:27:2	3			
VAPORIX	LEVEL	Environmental	History	Configuration		
		Configuration » T	ools » Log-Ffi	les		
watchd	og 🗸	- Log-File		show		
2013-06-26 14:10:25	s === starting the	watchdog			^	
2013-06-26 14:11:26	2013-06-26 14:11:26 Restarting vaporix					
2013-06-27 10:22:54	2013-06-27 10:22:54 === starting the watchdog					
2013-06-27 10:23:54	2013-06-27 10:23:54 Restarting vaporix					
2013-06-27 10:28:08 === starting the watchdog						
2013-06-27 10:29:08 Restarting vaporix						
2013-06-27 17:07:40) === starting the	watchdog				
2013-06-27 17:08:41	Restarting vapo	rix				
2013-06-28 08:16:32	e === starting the	watchdog				
2013-06-28 08:17:33 Restarting vaporix						
2013-06-28 08:37:14	==== starting the	watchdog				

Figure 27: Tools – Log file "Watchdog"



3 Remote access

3.1 Connection to the SECON-Server

3.1.1 Requirements

The connection of the user clients to the SECON-Server (see Figure 29) is established by a secure encrypted Internet connection (VPN Virtual Private Network).

(1) For the encrypted Internet connection the *installation of VPN software OpenVPN* on the PC, mobile phone or tablet used (user clients) is necessary. OpenVPN is an Open Source software with GNU General Public License, see:



Technical Documentation SECON-X OpenVPN installation, art. no. 350199.

- (2) *Key and configuration files* are required, which are provided by the FAFNIR company.
- (3) For remote access, "Mozilla Firefox", "Opera", "Chrome" or "Safari" are the *preferred web browsers*.



Remote access is currently not possible with Internet Explorer.

3.1.2 Connection setup

- (1) Test connection / disconnection
- Start the program "OpenVPN GUI" with administrator access rights.
 Then, the OpenVPN icon is displayed in the info area of the task bar.
- Right-click on the OpenVPN icon and select
 "Connect" for connection or "Disconnect" for disconnection.





After successful connection, the colour of the icon will change to green.

(2) Start the browser



- (3) Enter the following address for the FAFNIR server: *http://10.0.8.1* (for the user's own server, please enter the user's own address)
- (4) Confirm by pressing [Enter]
- The profiles created will vary depending on the user rights (configuration is carried out on the SECON-Server). These grant certain users access to configured items (petrol stations).
 - (5) In your browser, you will now see all the petrol stations released for you. Any petrol station with "Online" "Connect" status can be called up by clicking on "Connect".



Figure 29: SECON-Server home page

3.2 Connection to the SECON device

3.2.1 Connection setup

- (1) Any petrol station with "Online" "Connect" status can be called up by clicking on "Connect".
- (2) An access check for access to the petrol station is then carried out:

Authenticat	ion 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 30: Verification on the SECON-Client

Please enter your user name and password here. In the case of the FAFNIR server, this is "fafnir" and "fafnir22766"



If verification is successful, the system connects to the SECON-Client selected and the data recorded for the petrol station can be viewed via the browser.



Figure 31: Remote access to SECON-Client



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