Technical Documentation







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1 Overview

SECON-X is a universal hardware-software network system for recording, evaluating and displaying gas station data. The system performs the following tasks: Worldwide data access with web interface, local and remote display, remote evaluation, data backup (local and remote), remote diagnosis, and universal data format (XML).

At each single petrol station the data is recorded, displayed and made available locally with one VISY-Command Web or by a combination of VISY-Command/VAPORIX-Control and SECON-Client. A petrol station PC connected to the LAN serves as a local application and the SECON-Server is used for the worldwide transmission of the data. The data is transmitted to the end devices (user clients) by a protected HTTPS connection.



The term "SECON-Client" is used synonymously for the devices SECON-Client with VISY-Command/VAPORIX-Control and for the VISY-Command Web.

A network connection is required for the SECON-X components.

- The access to the SECON-Server should preferably be done with the Internet browsers Mozilla Firefox, Google Chrome, or Apple Safari.
- For the web access to the SECON Server or SECON Client, its IP address and the access data (user name and password) are required.



1.1 SECON-X Documentation

This **SECON-Client Administrator** manual describes the configuration of the SECON-X system with the web application "**SECON Configuration GUI**" and the "Configuration" menu **directly on the SECON-Client device**.

Other manuals of the SECON-X system are:	
SECON-Client (hardware device)	Art. no. 350076
SECON-Client User (remote access)	Art. no. 350175
SECON-Client User (local access)	Art. no. 350263
SECON-Server Installation	Art. no. 350112
SECON-Server Administrator	Art. no. 350088
SECON-Server User	Art. no. 350377
SECON-X Autocalibration	Art. no. 350342
SECON-X Reconciliation	Art. no. 350344
VAPORIX Flow/Control	Art. no. 207083
VISY-Command	Art. no. 207184
VPS pressure sensors	Art. no. 350204

1.2 Safety Instructions

The SECON-X system is intended for the display, evaluation and storage of petrol station data. 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 the latest good engineering practices and recognised technical safety regulations. Nevertheless, the system may be a source of danger. The following safety precautions must be observed 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 comply with the technical requirements specified by the manufacturer.
- The installation, operation and maintenance of the devices may only be carried out by qualified personnel.
- Operators, installers and service technicians must comply with all applicable safety regulations. This also applies to any local safety and accident prevention regulations which are not stated in this manual.



Not observing these safety instructions result in the risk of accident or damages to the system.



2 SECON-X Configuration with Connection to the SECON-Client

For security reasons, the SECON-X system can only be configured with a PC in the local network (SECON-Client and PC are in the same LAN) or with the SECON-Server via VPN remote connection to the SECON-Client.

2.1 Local Network Connection to the SECON-Client

- 1. Connect **the SECON-Client** and **the PC/notebook** to the local network **router**.
- 2. Open the SECON-Client Administrator website with the Internet browser and the web address https://SECON-Client-IP/admin where "SECON-Client-IP" must be replaced by the IP address of the SECON-Client. The SECON-Client IP address is displayed on the SECON-Client device in the WEB GUI menu, see chapter WEB GUI.
- Enter the login data and confirm with <OK>:
 User name: admin
 Password: Fafnir22765Altona
- 4. The browser window "SECON Configuration GUI" opens automatically.

FAFNIR"	SECON Configuration GUI	Choose your language
	Configuration Show	
Configuration	Configuration » Wizard	

5. The further configuration of the SECON-X system is described in chapter 3, "Configuration steps with "SECON Configuration GUI".

2.2 Remote Connection to the SECON-Client

2.2.1 VPN Connection

A VPN connection to the SECON-Client is required for configuration of the SECON-X System with SECON-Server. To establish the VPN connection, see the technical documentation:



SECON-Server Administrator, chapter VPN Connection Set up, art. no. 350088

An existing VPN connection to the SECON-Server is indicated on the SECON-Client with a **lock symbol**.



2.2.2 Remote Connection

The SECON-Server accesses the SECON-Client via a remote connection:

- Open the SECON-Client Administrator website with the Internet browser and the web address https://SECON-Client-IP/admin where "SECON-Client-IP" must be replaced by the IP address of the SECON-Client, see chapter WEB GUI.
- Enter the following login data and confirm with <OK>:
 User name: admin
 Password: fafnirAltona22765
- 3. It opens the "SECON-Server Administrator" website
- 4. Open the menu "Configuration ► Remote at Station"

		Configuration > Remote at Station
6	Holo (Information	Here you can set up a HTTPS connection to a station and configure this station via Browser.
e		Important The station you want to configure must be online.
Select a station	ECON-063-0003 1 Petrol Sta	tion, Street No. 1, 22525, Hamburg, Germany
		reset send

- 5. Select the desired station in the "Select a station" selection field.
- 6. Send a request to this **SECON-Client** with the **<send>** button.
- 7. Wait for the confirmation "Now you can start the remote configuration" in the status line.

	Co	onfiguration > Remote at Station
	Now you can start the remote configuration	tion of the selected Station. For this please click the button » connect to station «.
ß	Help / Information	Here you can set up a HTTPS connection to a station and configure this station via Browser.
•		Important The station you want to configure must be online.
Select a station	ECON-063-0003 1 Petrol Station, Street	t No. 1, 22525, Hamburg, Germany

- 8. Use the <connect to station> button to connect to this SECON-Client.
- 9. It opens the web interface SECON-Client User

FAFNIR [®] User Welcome to SECON-X	1 / EGON-063-0003, Petrol Station, Street No. 1, 22525, Hamburg, Germany.
---	---

10. Click on the "Admin" button and enter the login data:

User name: admin Password: Fafnir22765Altona.

11. It opens the web interface "SECON Configuration GUI" for configuring the SECON-X system, see next chapter.



3 Configuration Steps with "SECON Configuration GUI"

"SECON-Configuration GUI" is the web interface for configuring the SECON-X system. Access to the web interface is described in the previous chapters.

FAFNIR"	SECON Configuration GUI	Choose your language
	Configuration Show	
Configuration	Configuration » Wizard	
Monard	Information	
Wizard	Here you can configure this SECON in a few steps.	
	BACK	NEXT

3.1 Configuration Wizard (Wizard)

Start the configuration with the "Wizard" button
 » Use the < NEXT > button to confirm and save your entries and to jump to the next configuration item.

» Use the < **BACK** > button to jump back one configuration point.

» Use the < **Reset** > button to delete your entry.

2. After each configuration step, click on < **NEXT** >.

3.1.1 Selection of the Configuration Options

FAFNIR"	SECON Conf	iguration GUI
Configuration		Configuration » Wizard
Wizard	Please select option(s) BACK	Configuration Step(s) Station data Time Zone Printer VAPORIX Pressure VPS-V Oil Separator Units of Measurement Assignment (Tank → Product Quality / Shape) Reconciliation, Assignment (Fuelling point → grade / tank) Static Leak Detection (SLD) Tank table, Autocalibration



Select the components of your SECON-X system to be configured:

- Station data (address, etc.)
- Time Zone
- Printer
- VAPORIX (device number, fuelling points side A / side B)
- Pressure sensor VPS-V (device number, position, connection, fuelling points)
- Oil separator
- Units
- Allocation (tank > product quality / shape)
- Reconciliation, allocation (fuelling point > type / tank)
- Static Leakage Detection (SLD)
- Tank table, auto calibration

3.1.2 Station Data

Here, enter the data of your petrol station.

Dan - C	Step 2 of 12 » Station data «	
The second se	Station / Object	
Internal No. Name Street Postal Code City	1 Petrol Station Street No. 1 22525 Hamburg	
Country	Germany Geographic Coordinates	
Latitude Longitude	53,590542 9,904659	
BACK	Reset	NEXT

If you enter the geographical longitude and latitude of the station, the station is shown as a needle on the map of the SECON-Client website, see technical documentation:



SECON-Server User, chapter OSMap, art. no. 350377

Depending on the selection of the options to be configured, the display of the configuration steps "Step 1 of 12" changes.



3.1.3 Time Zone

		Step 3 of 12 » Time Zone	«		
365		Time Zone			
	Local time	2023-02-10 11:08:53			
	UTC time	2023-02-10 11:08:53			
Please select your	» Time Zone «	Europe/London	~		
⇒ Set » Date / Time « via M	letwork				
😵 Please select a	» Time server «	SECON-Server	~	Set	
BACK		Reset		NEXT	

Date and time of the **SECON-Client** devices are synchronized with a time server. If no connection to the SECON-Server shall be established, another server can be selected here, e.g. "de.pool.ntp.org" for Germany.

A connection to the SECON-Server or the Internet is required for automatic time correction.

- 1. In the "Time Zone" field, select your location's time zone.
- 2. In the "Time server" field, select the time server (factory setting is the SECON-Server).

3.1.4 Printer

	Step 4 of 12 » Printer «
	Printer options
Please select options	 Activation Automatic Printout of Deliveries Delivery short printout Automatic Printout of Tank Alarms Automatic Printout of Environmental Alarms
BACK	Tank Invetory data are automatically printed at the selected time(s). Station Gas'n Go 127A Tank-Inventory 2020-08-28 07:00 Tank 1 Diesel Date: 2020-08-28 07:00:00 Volume TC: 5166,0 Liters Level: 322,3 mm Ulage: 80295,4 Liters Temperature: 21,1 °C Wasser: 55,7 mm Tank 2 BioDiesel Date: 2020-08-28 07:48:02 Volume TC: 11635,0 Liters Tank 2 BioDiesel Date: 2020-08-28 07:48:02 Volume TC: 11635,0 Liters Time TC: 11645,0 Liters

The built in printer of the VISY-Command Web can be activated here for printouts in the event of deliveries, alarms or daily reports at freely selectable times.



3.1.5 VAPORIX-Controls

VAPORIX-Controller									
No.	Controller-Id	Descriț	ption of 'FP side A'	Description of 'FP side B'					
1 11	11111 ≑	1	2						
2 22	22222 😫	3	4						
Add new controller Del last controller									

Here VAPORIX-Controls can be added with the **<Add new controller>** button or the last controller in the list can be deleted with **<Del last controller>**.

The controllers are saved with the device numbers (**Controller-Id**) and the fuelling point numbers (**Description of FP side A/B**) for fuelling point A and fuelling point B.

3.1.6 VPS-V Pressure Sensor (not available)

-)	Step 6 of 12 » Pressure VPS-V «									
	😕 Pressure VPS-V									
No.	Sensor-ID	Position		Fuelling point(s) for monitoring	Connection					





3.1.7 Oil Separator

Probe No.	Measurement values	Lev.[mm]			Measurement va	lues Lev.[mm	11
7	39.2	650.0	Product Name /	Probe No.	Product	Water	
8		800.0	Super 95	1	1121.9	55	.5
-			Super E10	2	1421.9	56	.5
			Stick-Oil 7	7	3000.0	2500	.0
			Stick-Oil 8	8	3000.0	2390	.0
- <mark>3</mark> Loi	gging ——————————————————————————————————	Common setting	gs for all Oil Separato s	ors			ר ר
Activati Inter Start Ti	ion v val (1 v) Hour(s) me 00:00 v	-	Alarm rep. :	Time-out N Day of m »Light fluid to	Maintenance after nonthly Inspection no long constant«	10 Hour(s) 28 1 Day(s)	
		Settings for i	ndividual Oil Separat	tors			
<u> </u>	Oil Separator						
Number	1 Ider	Abscheide	r 1				
6	Sludge Probe » VISY-Sludge « Assign probe to this Oil Sep.		- 7 Tank Pr	obe » VISY- Assigr	Stick «	ep. 🔽	
	Probe No	. 7			Probe I	No. 7	
	Distance to Oil sep. botton	י 1000 mm			Referece filling Le	evel 3000	mm
	Alarm threshold sludge laye	r 400 mm		1	Max. Light fluid Volu	me 5000	L
					Max. Light fluid Le	evel 1000	mm
			»Light fl	uid layer too	thick« Alarm thresh	old 800	mm
			»Hi	gh level, rete	ention« Alarm thresh	iold 50	mm
			- 8 Alarm	Light fluid t	oo long constant «		_
				Recognitio	n time span 21	Day(s)	
				Min. Le	evel change 50	mm	

INFORMATION: Detected probes :

- (1) Sludge probes » VISY-Sludge « and their measured values
- 2 Tank probes » VISY-Stick « and their measured values

Common settings for all Oil Separators:

3 Logging: Activation and time setting for logging Please use the default values (interval 1 hour, start time 00:00)



4 Options:

- Time-out Maintenance after: 10 hours (recommendation)
- Day of monthly inspection: 28 (recommendation)
- Alarm repeat »Light fluid too long constant« after: 1 or 2 day(s) (recommendation)

The monthly visual inspection is the plausibility check of the oil separator data.

Settings for individual Oil Separators

5 Oil Separator

Number: freely selectable; e.g. 1 for the first oil separator Identifier: freely selectable (e.g. Abscheider 1, or Separator 1, ...)

(B)

(7)

In some countries the Oil separators are given an identifier/designation by the **Water Authorities**. This identifier/designation then should be entered here and in the "**Operating Log**".

6 Sludge probe » VISY-Sludge «:

Assignment of the VISY-Sludge probe (e.g. probe no. 7) to the corresponding oil separator (e.g. Oil Separator no. 1). To activate, the tick must be set.

Distance to Oil Separator bottom: Distance from the lower edge of the VISY-Sludge probe to the tank bottom

Alarm threshold sludge layer: maximum sludge layer height with alarm triggering Tank Probe »VISY-Stick«

Assignment of the VISY-Stick probe (e.g. probe no. 7) to the corresponding oil separator (e.g. Oil Separator no. 1). To activate, the tick must be set.



Figure :

- 1 Reference filling Level: Distance from the probe foot up to the maximum filling level (outflow height)
- 2/3 Max. Light fluid Volume/Level: Maximum possible volume / filling level until the drain valve closes (see container specifications)
- 4 » Light fluid layer too thick « Alarm threshold: Specification of the maximum layer thickness of the light liquid to trigger an alarm (max. 80% of the permissible layer thickness, see warning)
- 5 » High Level, retention « Alarm threshold: Specification of the maximum high level's layer thickness to trigger an alarm





Average case volume

It is necessary to check if the remaining 20% can absorbe the average case volume. Otherwise, the alarm threshold must be set to lower value, e.g 70%. The average case volume is calculated from the dispenser's delivery rate with the highest rate per minute on a duty cycle of 3 minutes.

Example:

Standard petrol dispensers have a delivery rate of 40 l/min, which corresponds to an average case volume of 120 litres in 3 minutes, which must be absorbed at least. From this it follows that the light liquid volume must be at least 600 litres (80% of 120 l).

(8) Alarm » Light fluid too long constant« :

Changes in the layer thickness are monitored to determine malfunctions of the measuring system.

Recognition time span: Time span in which the layer thickness must have been changed (recommendation: max. time period)

Minimum Level change: necessary minimum change of the layer thickness (recommendation: 3 mm)



If no change in the layer thickness is measured within the time span, an alarm is given.



(9) To add another oil separator here, click on the **Add new Oil Separator**> button and enter the relevant data.

For more information on installing oil separators, see the technical documentation:



COMS Installation Quick Guide, art. - no. 350240

3.1.8 Units

North Law	Step 8 of 12 » Units of Measurement «
Please select the Units of measure	Outis of Measurement Volume: Liter [L] Mass: Kilogram [kg] 1 Kilogram [kg]
ВАСК	Reset

Select the desired units of measurement:

- Liters [L], cubic meters [m³], or US gallons [G] Volume:
- Kilogram [kg], tonne [T], or "Do not show" Mass:



3.1.9 Assignment (Tank – Product Quality / Shape)

The "Assignment (Tank - Product Quality / Shape)" is only available with an existing network connection to the SECON-Server.

Changes to the Product Qualities (product name / colour) done with SECON-Server must be transferred to the **SECON-Client**. This is done in the "Assignment (Tank – Product Quality / Shape)" menu. The tank shapes (horizontal lying or standing) can be defined here:

	S	Step 9 of 12	2 » Assignment (Tank \rightarrow	Product Quality /	Shape) «		
	Defined Prod	duct Qualities					
30	VERS Created on the SECON-Sen	ION: 5 ver on '2023-02	2-14 08:26:08'				
ID	Name		Density [kg/L]				
1	Regular		0.7410				
2	Super 95		0.7490				
3	Diesel		0.8360				
4	BioDiesel		0.8800				
5	Kerosin, Jet-A		0.8010				
6	Jet-B		0.7650				
7	Av Gas		0.7030				
8	Super E10		0.7480				
9	E21 - E40		0.7560				
10	E41 - E60		0.7660				
11	E61 - E80		0.7750				Example: View of a
12	E81 - E100		0.7850				"Now Configuration"
13	AdBlue		1.0920				New Configuration
14	LPG		0.5480				with changed Product
15	Super Plus		0.7490				Qualities
			Tanks 😣				Quanties
No.	Current Configuration	n		New Config	juration		
	Product Name	Shape	Shape		Product Qual	lity	
1	Super 95		 (Laying cyli 	nder 🗸	(Kerosin, Jet-A	~	
2	Super E10		laying cyli	nder 🗸	Jet-B	~	
3	Super Plus		e (Laying cyli	nder 🗸	Av Gas	~	
4	Diesel		Laying cyli	nder 🗸	(E21 - E40	~	
5	BioDiesel	0	 (Laying cyli 	nder 🗸	(E61 - E80	~	
6	LPG		laying cyli	nder 🗸	E81 - E100	~	
	ВАСК		Reset		NEXT		

The saved product qualities are displayed in the upper window section "**Defined Product Qualities**". The configured tanks of the selected petrol station are displayed in the lower window section "**Tanks - Current Configuration**" and can be changed in the section "**Tanks** - **New Configuration**":

- Under "New Configuration" select the new tank shape and product quality.
- Transfer this new configuration with the button <NEXT> to the SECON client.
- The success message "SECON-Configuration successfully completed" appears as confirmation of the changes.

With the **<NEXT>** button, the changes made here are transferred and saved to the SECON-Client.



3.1.10 Reconciliation, Assignment (Fuelling Point > Grade / Tank)

Reconciliation is process by which stocks are accounted for by comparisons between the tank filling levels, deliveries and sales at defined time intervals.

The prerequisite for reconciliation is :

- SECON client with **POS interface** and **activated POS service** (see chapter 4.3.4)
- The POS communication with the VR DIM protocol
- The assignment of the fuelling point to the fuels (grade) / tanks (see below)



Fuelling point - Product - Assignment

A typical dispenser has two fuelling points (dispenser sides) each with multiple nozzles. Each Fuelling Point (FP) has a unique number. In the lower section of the window "Assignment (Fuelling point – grade / tank)" the individual nozzles can be assigned the associated grade / tank (grade 1 ... 6) via pull-down menu.

With <**Add new Fuelling Point**> the fuelling points can be added, with <**Del last Fueling Point**> the last fuelling point can be deleted.

Reconciliation

The reconciliation is switched on in the upper window section "Global settings" in the area "Logging" with the checkbox "Activation". The start and repetitions of the reconciliation measurements are set with the drop-down lists "Interval" and "Start time". As a result, a report is issued with the delivery quantities and filling levels of the tanks.

For further information of Reconciliation see the technical documentation



SECON-X Reconciliation, art no. 350344

POS Communication

The POS Communication with **SECON-Client** can be monitored. The monitoring is switched on in the "**Global settings**" window section under "**POS communication monitoring**" with the "**Activation**" checkbox. If there is no communication, an alarm is output after the "**timeout**" specified here.



3.1.11 Static Leakage Detection (SLD)

The Static Leakage Detection (SLD) serves to check the tank levels for possible losses caused by leakage or theft while the station is closed.

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⁷ This menu item can only be configured with a network connection to the SECON-Server.

	0	Step 11	of 12 » Static Leak Dete	ction (SLD) «								
			Static Leak Detection (SL	.D)								
	- 😵 Common se	ettings for all Tanks										
12	Exec	ution: (Daily 🗸	Year - Month - Day: **	** - ** - ** Start Time: (00:00:00							
	Duration: 5 Hour(s)											
	Start Date: 2022-04-29											
	Start	Time: 00 : 00										
	5000											
	Settings for individual Tanks											
No.	Tank	Configura	ation Values	S	settings							
	Tank 1	Nominal Volume Capacity	25000 L 22500 L	Activation:								
	Super 95	Safety Volume Product	2500 L Super 95		440							
1	(diported			Alarm threshold:	112 L							
				Quotient:	0.498 %							
	Tank 2	Nominal Volume	25000 L									
		Capacity Safety Volume	22500 L 2500 L	Activation:								
2	Super E10	Product	Super E10	Alarm threshold:	112 L							
				Quotient:	0.498 %							
	Tank 3	Nominal Volume Capacity	25000 L 22500 L	Activation:								
	Super Dius	Safety Volume Product	2500 L Super Plus									
3	Super Flus	Floduct	Super Flue	Alarm threshold:	112 L							
				Quotient	0 498 %							

The Static Leakage Detection (SLD) is calculated based on the tank filling levels.

An alarm is triggered if the temperature-compensated start volume determined at the beginning of the static leakage detection falls below the alarm threshold entered here.

Example: if the temperature compensated volume of Tank 1 (Super 95) falls by more than 112 litres during the night from 00:00 to 05:00, an SLE alarm will be triggered.



3.1.12 Tank Table, Autocalibration

Autocalibration is the calculation of new tank tables or the correction of existing ones. The goal is to obtain new tank tables that are describing the tank geometry as accurate as possible. The sales data from the POS is used for this.

The autocalibration should only be terminated after at least 10 complete fillings and emptyings.

NON : 00	Step 12 of 12 » Tank table, Autocalibration	n «									
6913° • *	😵 Global Settings										
Configuration » Auto	ocalibration «										
	Process fuel sale volumes from POS										
1 Page 1	Compute NEW tank tables										
	Save Configuration										
	😣 single Tank										
Select Tank	Tank: (1 »Super 95« 25000.0 L •										
Tank	Configuration Values	Action / Settings									
Tank 1	Nominal Volume 25000.0 L Diameter 2500 mm Shape Laying cylinder	Show CURRENT Table									
	value Pairs 10	Autocalibration									
ВАСК	Reset	NEXT									

Global Settings in the top section: Activating (click on) the checkbox "Process fuel sale volumes from POS" starts the autocalibration, deactivating the checkbox stops the autocalibration. With the "Compute new tank tables" option, new tank tables are calculated once a day for each tank using the data from the POS. The <Save configuration> button saves the current settings for the autocalibration.

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After the tank tables have been created successfully, the autocalibration should be deactivated to protect the system.

Lower section "Single Tank": A particular tank can be selected here via the "Tank" selection field for viewing or editing the associated tank table.

The **<Show CURRENT Table>** or **<Edit CURRENT Table>** button can be used to display or correct the currently saved tank table <u>without the autocalibration function</u>. With the **<Au-tocalibration>** button, a new tank table created <u>with the autocalibration function</u> can be viewed and corrected manually.

To activate the new, corrected tank table, it must be transferred to VISY-Command/Web and saved using the **<Save NEW Tank Table>** button.

For more information about Autocalibration see the technical documentation



SECON-X Autocalibration, art no. 350342



3.1.13 Completion Message

	Finish	
A Los	Congratulations	
SECON-Configuration successfully completed	ed III	

After the last configuration step, a completion message appears.

This completes the configuration with SECON Configuration GUI.

3.2 Show Configuration

The current configuration of all options is displayed in this menu item. The details of each option are shown or hidden with the plus/minus buttons.

	Show » Configuration								
	⇒ Station data								
		Station / Object							
Ca	Internal No.	1							
	Name	Petrol Station							
	Street	Street No. 1							
	Postal Code	22525							
	City	Hamburg							
	Country	Germany							
	Geog	graphic Coordinates							
	Latitude	53.590542							
	Longitude	9.904659							
	⇒ Time Zone								
	⇒ Printer								
	⇒ VAPORIX								
-	⇒ Pressure VPS-V								
	⇒ Oil Separator								
	⇒ Units of Measurement								
	\Rightarrow Assignment (Tank \rightarrow Product Quality / Shape)								
	\Rightarrow Reconciliation, Assignment (Fuelling point \rightarrow grade / f	tank)							
	⇒ Static Leak Detection (SLD)								
	⇒ Tank table, Autocalibration								
	 ⇒ Static Leak Detection (SLD) ⇒ Tank table, Autocalibration 								



4 "Configuration" Menu of the SECON-Client Device

Information on the configuration of the associated SECON system is displayed in the "**Con-figuration**" menu of the SECON-Client device. Some settings are possible in the password-protected "Settings" menu.

4.1 Virtual Keyboard

A virtual keyboard appears automatically for entering characters:

- To switch between upper and lower case, use the key: [¹]
- To delete a character, use the key: [←]
- To delete the entire field, use the key: [Clear]



4.2 Menu "Info"

The following submenus are displayed in the "**Configuration** ► **Info**" menu:

Station, WEB GUI, WebDAV, Software Version, current IP Address, Route Table, VPN:

VAPORIX LEVEL	Environmental History	Configuration
	Station	Information
Designation	WEB GUI	Settings
	WebDAV	Tools
Internal No.		0001
Designation	Software Version	Petrol Station
Street		Street No.1
Postal Code	current IP Address	22525
City		Hamburg
Country	Route Table	Deutschland
Status		OK (2021-08-27 13:20:38)
Latitude	VPN	10.1234
Longitude		12.3456
	date-tir	ne
Localtime		2021-08-31 10:58:51
UTC-Time		2021-08-31 08:58:51
Time-Zone		Europe 🌫 Berlin



4.2.1 Station

The address, coordinates, status and time settings of the petrol station are displayed here. Each SECON-Client device can be uniquely identified with the ECON number given under "Designation". Each ECON number is unique.

VAPORIX LEVEL	Environmental History Configuration
	Configuration ≻ Information ≻ Station
	Device
Designation	ECON-063-0001
	Station
Internal No.	0001
Designation	Petrol Station
Street	Street No.1
Postal Code	22525
City	Hamburg
Country	Deutschland
Status	OK (2021-08-27 13:20:38)
Latitude	10.1234
Longitude	12.3456
	date-time
Localtime	2021-08-31 10:58:51
UTC-Time	2021-08-31 08:58:51
Time-Zone	Europe > Berlin

(P

The "**Status**" corresponds to the alarm messages and is displayed here in the colours green (OK), yellow (warning) and red (error).

4.2.2 WEB GUI

The access data for web access to the **SECON-Client** is displayed here:

VAPORIX	LEVEL	Enviro	nmental	H	istory	Config	guration				
			Configuratio	on	≻ Inform	ation >	WEB GUI				
User GUI											
Addre	ss	https://SE	CON-Client-IP								
	user	fafnir									
	password	fafnir2276	6								
	Manuals	MENU:	Information	×	Manuals						
	Documents	MENU:	Information	×	Document	s					
					Admin (JUI					
Addre	SS	https://SEC	CON-Client-IP/a	dmin							
	user	admin									
3	password	******									

With the access data "**User GUI**" you can open the web interface of the SECON-Client with a web browser as a user, see technical documentation:



SECON-Client User (remote access), art. no. 350175

With the access data "Admin GUI" you can open the web interface of the SECON-Client "SECON Configuration GUI" for the configuration of the SECON-X system with a web browser, see chapter 3 Configuration Steps with "SECON Configuration GUI".



4.2.3 WebDAV

With WebDAV, the data of the **SECON-Client** is integrated as a virtual drive on your PC/Mac and can be displayed with a file manager. The WebDAV connection must be set up via the operating system or with an external **WebDAV client** (e.g. WinSCP).

The WebDAV Access Data is displayed in this menu:

VAPORIX	LEVEL En	vironmental Hi	story	Configuration	
	Configuration >> Information >> WebDAV				
	WebDAV (Share folders »history data« over the LAN)				
Ad	dress	https://SECON-Client-IP/v	webdav		
	user	webdav			
	password	webdav22765			

Enter the IP address shown in the "Address" field in the browser of your WebDAV client (example: https://SECON-Client-IP/webdav where "SECON-Client-IP" corresponds to the actual IP address of the SECON client). The Login data is:

User: webdav Password: webdav22765

After connection the data directories of the **SECON-Client** can be opened in the WebDAV client, see technical documentation:

SECON-Client User (remote access), chap. Download per WebDAV, art. no. 350175

4.2.4 Software Version

The versions of the individual software components are displayed here:

VAPORIX	LEVEL	Environmental	Hist	ory	Configuration	
		Configuration	≻ In	formatio	on ➣ Software Version	
	N	Jame			Software Version	
	SI	ECON			2.4.21.03	
		GUI		2.4.21.03		
	Tra	nslation		1.0.10.0		
	Fafnir			1.0.3.0		
X	Intern-Atg			1	1.0.6.33	
	Extem-Atg				1.0.6.12	
Dispatcher					1.3.6.3	
Alarm-Manager				£	1.0.5.2	
	Va	aporix			1.4.8.4	



4.2.5 Current IP Address

The data of the local SECON-Client network connection is displayed here. The local network connection and the VPN interface must be active to enable the external access.

VAPORIX LEVEL	Environmental	History	Configuration				
	Configuration	≻ Information	n ≻ current IP Address				
Name			Value				
Interface		ethO					
IP		SECON-Client-IP					
MAC		00:07:8E:20:BA:7D					
Bcast		Bcast					
Mask		255.255.254.0					
RX Bytes		82700808 (78.87 MiB)					
TX Bytes		383220476 (365.47 MiB)					

4.2.6 Route Table

The routing IP addresses are listed here:

VAPORIX LEVEL	Environmental History	Configuration	
	Configuration 🈕 Inform	ation 🈕 Route Table	
destination	Gateway	Genmask	Iface
1.0.8.1	1.0.8.217	255.255.255.255	tun0
1.0.8.217	0.0.0.0	255.255.255.255	tun0
1.1.198.0	0.0.0.0	255.255.254.0	eth0
1.0.8.0	1.0.8.217	255.255.248.0	tun0
0.0.0.0	1.1.198.2	0.0.0.0	eth0

4.2.7 VPN

The current data of the virtual private network (VPN) is displayed here. The interface must be active to enable the external access.

VAPORIX LEVEL	Environmental	History	Configuration			
	Configu	ration 🈕 Info	ormation 🈕 VPN			
Name			Value			
Interface		tun0				
IP		11.0.1.218				
P-z-P			11.0.1.217			
Mask		255.255.255				
RX Bytes		29707 (29.01 KiB)				
TX Bytes		20911 (20.42 KiB)				



4.3 Menu "Settings"

The following submenus are displayed in the "**Configuration** ► **Settings**" menu: Truck Driver Display (Truck Drv Dsp), Language, Services, Alarm Volume, Network, VPN, Screen Calibration, via Browser:

VAPORIX	LEVEL	Umwelt-Sensorik Historie			Konfiguration
		K	TKW-Anz	eige	Info
			Sprache		Einstellungen
			Dienste		Tools
			Alarmlau	tstärke	Speichern
			Netzwerl	¢	
			VPN		
			Bildschir	mkalibrierur	
			per Brow	ser	

All menus except the "Truck Driver Display" menu are password-protected.

4.3.1 Login

A login is required for all menu items of the "Settings" menu, except for the Truck Driver Display:

1. Enter the login data and confirm with "OK":

User: admin Password: vap22765



After 5 minutes without configuration changes the access to the settings menu is blocked.



4.3.2 Truck Driver Display

Here the tabular view of the tanks can be changed to the **Truck Driver view** to display only 2 tanks in 1 window sequentially.

Tick on the Truck Driver Display and confirm with Save:

VAPORIX	LEVEL	Environmental	History	Configuration
		Configuration	n ≻ Settings	: ≻ Truck Drv Dsp
				Truck Driver Display
		Reset		Save

The symbol appears in the Truck Driver Display above the menu line.

Then the display changes to the Truck Driver Mode with the enlarged display of only 2 tanks:





4.3.3 Language

VAPORIX	LEVEL	Environmental History	Configuration	
		Configuration ≻ Sett	ings 🎾 Language	
			*	\$
German (D	eutsch)	English	Spanish (Español)	Hebrew (עברית)
		(3)		*)
Italian (Ita	aliano)	Portuguese (Português)	Russian (Русский)	Chinese (中国的)

Select the desired language here. You can currently choose from: German, English, Spanish, Hebrew, Italian, Portuguese, Russian or Chinese

4.3.4 Services

VAPORIX	LEVEL	Environmental History Configuration
		Configuration ≻ Settings ≻ Services
		VAPORIX
		LEVEL
		POS POS
		Reset Save

The available services can be activated or deactivated here.

VAPORIX

By selecting the "VAPORIX" service, the "SECON-VAP" and "SECON-VAP+" extensions are activated. This allows the SECON-Client to monitor the Vapor Recovery with VAPORIX-Flow and Control and to monitor the Vapor pressure in petrol storage tanks with the VPS-V pressure sensors. The VAPORIX and VPS-V menus are activated.

For details on VAPORIX-Flow and Control and on the pressure sensors VPS-V see the technical documentation:



VAPORIX-Flow/Control, art. no. 207083



VPS Pressure sensors, art. no. 350204



LEVEL

By selecting the "LEVEL" service, the "SECON-LEV" extension is activated. This allows the SECON-Client to monitor the level measurement (ATG) and the environmental sensors with the VISY-X sensors. The LEVEL and Environmental menus are activated.

For details on level measurement and environmental sensors, see the technical documentation:



VISY-Command (VI-4), art. no. 207184



VISY-Stick VISY-Reed, art. no. 207194

POS

By selecting the "POS" service, the "**SECON-LEV+**" extension is activated. This allows the SECON-Client to use the POS data from the cash system (e.g. tank data and fuel sales information).

The requirements for connection to a POS system are:

- the activated "LEVEL" service
- the activated "POS" service
- the RS-232 hardware interface with the following transmission parameters: Baud rate: 9600
 Data bits: 8
 Parity: None
 Stop bits: 1
- the Veeder Root TLS-R protocol (or DIM protocol) in the POS system

The POS Service is a necessary requirement for the "Reconciliation" and "Auto-Calibration" features.

For further Details see the technical documentation:



VISY-Command (VI-4), art. no. 207184



SECON-X Autocalibration, art. no. 350342



SECON-X Reconciliation, art. no. 350344



4.3.5 Alarm Volume

The Alarm Volume can be set:

VAPORIX	LEVEL	Environmental	History	Configuration	
		Configuratio	n 🏼 Setting	gs 🎽 Alarm Volume	
			alarm vol	lume	
			75 %		
		•			

4.3.6 Network

VAPORIX	LEVEL	Environmental History	Configuration
		Configuration ≻ Sett	ings ≻ Network
		 Automatic Configuration (via Manual Configuration 	DHCP)
		Reset	Save

The network can be configured automatically. With this configuration, the client requests the IP address from the DHCP server directly. A functional DHCP server must be available in the network for this. For this, select the option "Automatic configuration" and confirm by pressing the **<Save>** button.



Network configuration is set to DHCP by default.



VAPORIX	LEVEL Umwelt-Sensorik Historie Konfiguration
	Konfiguration > Einstellungen > Netzwerk
	 Automatische Konfiguration (per DHCP) Manuelle Konfiguration
	IP Adresse:
	Subnetzmaske:
	Standard Gateway:
	Primärer DNS-Server:
	Sekundärer DNS-Server:
	Löschen Speichern
	1 2 3 4 5 6 7 8 9 0 . ← Clear

The network can be configured manually. Select "Manual configuration" and enter the appropriate data. Confirm with the **<Save**> button.



4.3.7 VPN

A VPN connection is required to configure the SECON-Client with the SECON-Server:

VAPORIX	LEVEL	Environmental Histor	y Configuration
		Configuration >>	Settings ≻ VPN
		VPN-Server IP Addr	ess: VPN-Server-IP
		VPN-Server F	^v ort: 1194
		Proto	col: UDP 🗸

To establish the VPN connection, see the technical documentation:

SECON-Server Administrator, chapter VPN Connection Set up, art. no. 350088

4.3.8 Screen Calibration

VAPORIX	LEVEL	Environmental	History	Configuration
		Configuration	≻ Settings	➢ Screen Calibration
Scree	n Calibration		St	art

The touchscreen precision is calibrated here. Press the **<Start>** button and touch the 5 calibration crosses one after the other with a touchscreen pen:



If the calibration is not performed correctly, the touchscreen may no longer be usable !



4.3.9 via Browser

The access data for the web access to the SECON-Client is displayed here:

VAPORIX	LEVEL	Enviro	nmental	H	istory	Configuration			
	Configuration \succ Settings 🌫 via Browser								
					User GU	л			
Address	s	https://SE	CON-Client-IP						
	user	fafnir							
	password	fafnir2276	6						
	Manuals	MENU:	Information	*	Manuals				
	Documents	MENU:	Information	≻	Document	s			
	Admin GUI								
Address	5	https://SE0	CON-Client-IP/a	dmin					
	user	admin							
	password	*****							

With the access data "**User GUI**" you can open the web interface of the SECON-Client with a web browser as a user, see technical documentation:



SECON-Client User (remote access), art. no. 350175

With the access data "Admin GUI" you can open the web interface of the SECON-Client "SECON Configuration GUI" for the configuration of the SECON-X system with a web browser, see chapter 3 Configuration Steps with "SECON Configuration GUI".



4.4 Menu "Tools"

The following submenus are displayed in the "**Configuration** ► **Tools**" menu: Ping, Traceroute, Nslookup, Printer, Selftest, Log Files:

VAPORIX	LEVEL	Umwelt-	-Sensorik Historie	Konfiguration
			Ping	Info
			Traceroute	Einstellungen
			Namensauflösung	Tools
			Printer	Starten
			Selbsttest	
			Log-Dateien	

4.4.1 Ping

Here you can check the network connection to an entered IP address with a ping:

VAPORIX	LEVEL	Environmental	History	Configuration			
		Confi	guration ≻	Tools ≻ Ping			
	IP Address:						
		Reset	la.	Start			



4.4.2 Traceroute

Here you can enter a destination address to show the individual stations through which a packet passes to reach the destination address:

VAPORIX	LEVEL	Environmental	History	Configuration				
		Configur	ration ⊁ Too	ls ≻ Traceroute				
	IP Address:							
Reset Start								

4.4.3 Nslookup

To determine whether the set DNS resolution is working properly, one of the available addresses can be resolved :

VAPORIX	LEVEL	Environmental	History	Configuration	
		Configu	uration 🈕 To	ols ≻ Nslookup	
		destination:	fafnir	de 🗸	
	_	Reset		Start	

4.4.4 Printer

VAPORIX	LEVEL	Environmental	History	Configuration			
Configuration >> Tools >> Printer							
	SYSTEM-CONFIG: The printer is not activated.						
Use the Admin-GUI to activate it.							



4.4.5 Selftest

In the selftest, a comprehensive system test is carried out and the results obtained are output in tabular form :

VAPORIX	LEVEL	Environmental	History	Configuration				
Configuration 🌫 Tools 🌫 Selftest								
		Selftest:		Start				
			System inform	nation				
Running proces	ses		62					
Tmp-FS size			12	2.7M				
Tmp-FS use			3.0	M(2%)				
			SD Card	1				
Status			mo	ounted		OK		
size			3.7	'G				
use			77.	3.2M (22%)				
			Networl	K				
LAN-Iface eth0			UF)		OK		
LAN-Iface eth0			Co	nfigured		OK		
LAN-Iface eth0			ххэ	yyy.zzz.213		OK		
VPN-Interface			rur	ning		OK		
Default route			ххх	.yyy.zzz.2		OK		
Nameserver1			xxx	.yyy.zzz.40		OK		
Nameserver2			xxx	.yyy.zzz.41		OK		
			Applicatio	ns				
App: Alarmmai	ıager		rur	ning		OK		
App: Dispatche	r		rur	ning		OK		
App: Level exte	rn		rur	ning		OK		
App: Level inter	rn		rur	ning		OK		
App: Local-GU	[rur	ning		OK		
App: POS			rur	nning		OK		
App: VPN			rur	ming		OK		
App: Web-Serve	er		rur	ning		OK	-	

4.4.6 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 :

VAPORIX	LEVEL	Environm	ental	History	Configuration	
			Configu	ration 🈕 Too	ols ≻ Log-Ffiles	
	watchdog	~	- Log-File		show	
2019-10-22 14:58:	22 === starting t	he watchdog t 23 11-25-13 CE	ST 2019			



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