

NEX·U· MANAGER / USER MANUAL



(Version 4.1 ENG)

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1 MANAGER

Once you open the IP address designed by the customer, you will get the main screen.



You must go to  and then insert user and password.

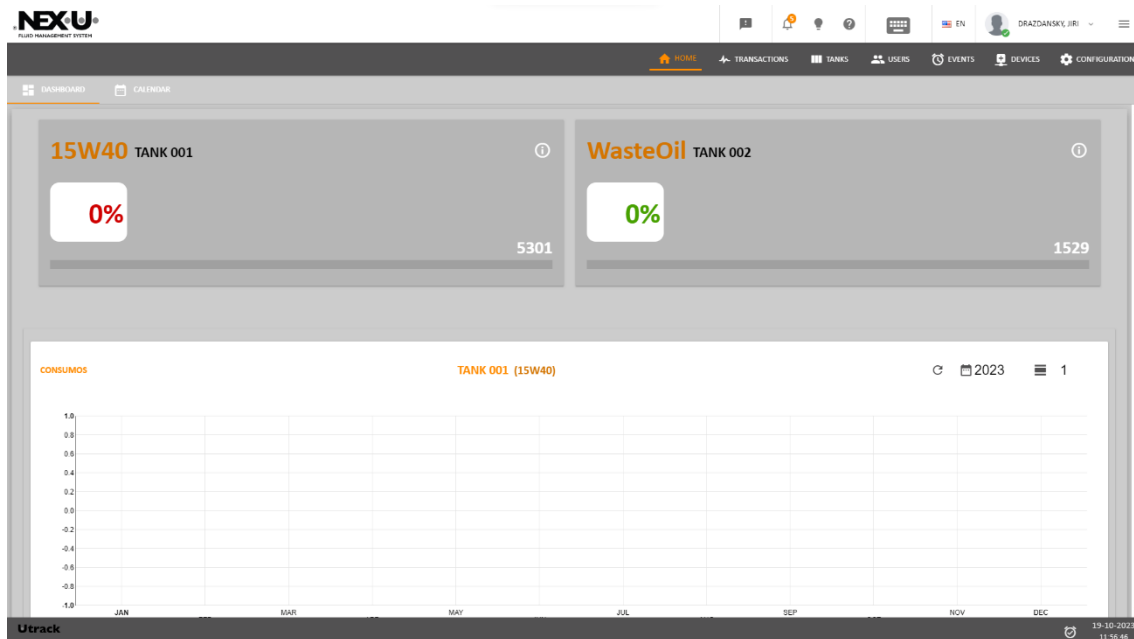
At the left lower part of the screen, you will see the number of transactions in progress and details of the transactions. (In this case there is one transaction in progress, the job order is 1, the delivered liquid is 0W30 and it has been made by NEXU, Admin).

The upper bar shows six different submenus




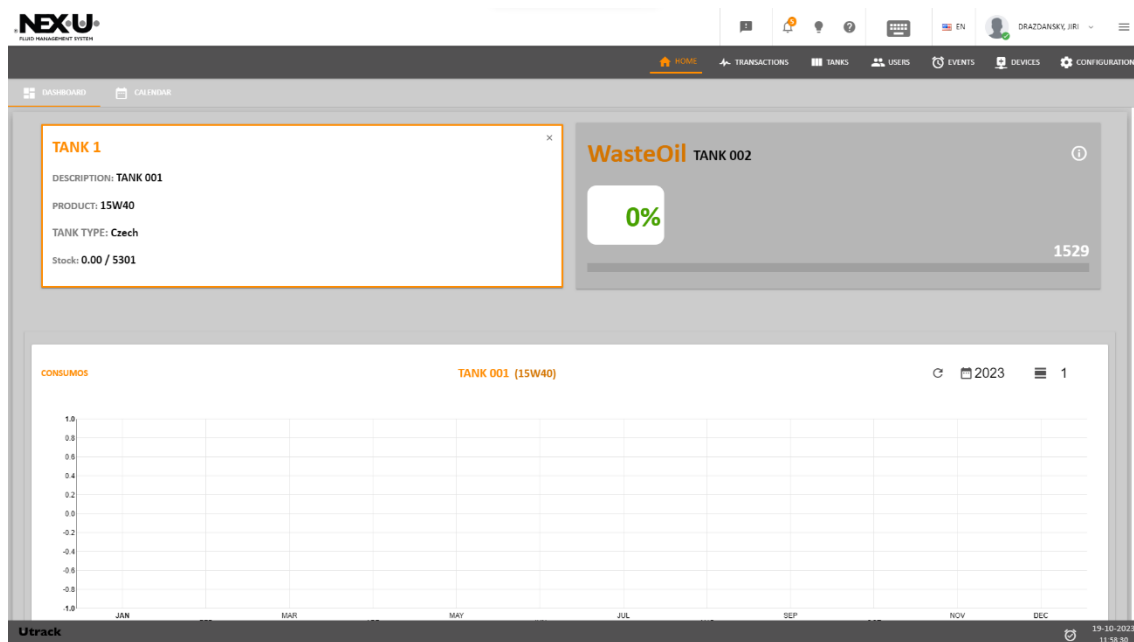
We will go through all of them to show all the possibilities.

1.1 HOME

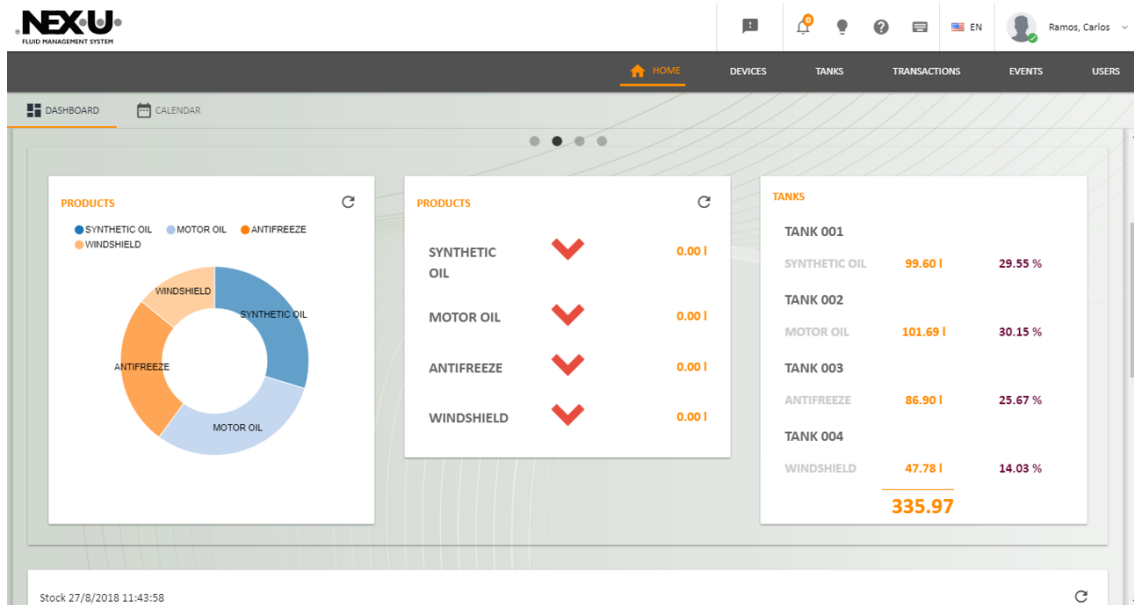


In the upper part you will see a rolling screen in which the situation of the tanks is available.

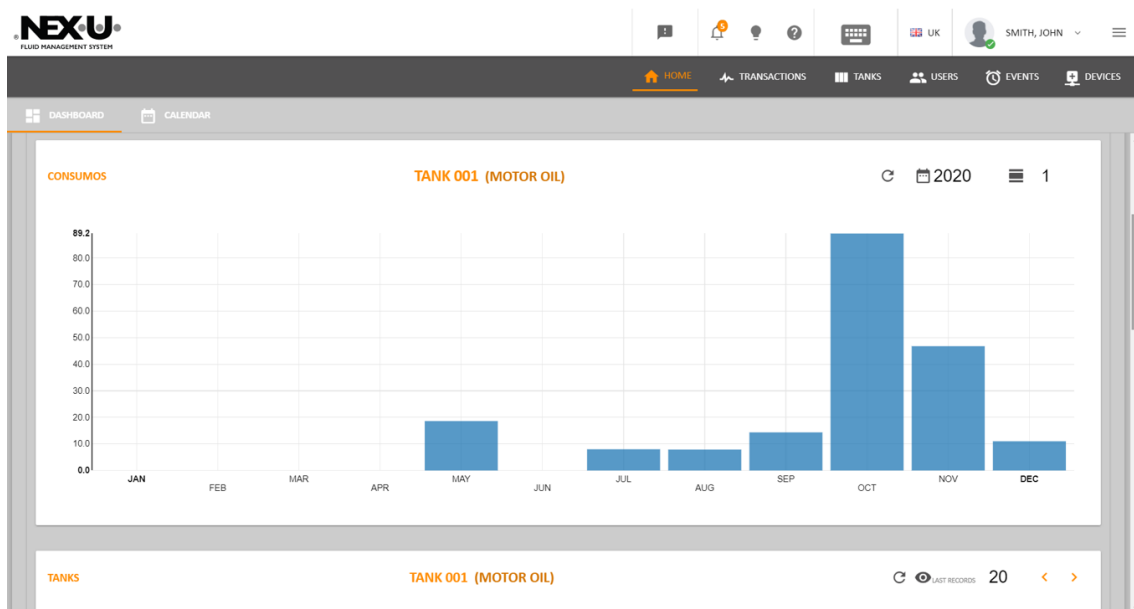
In that upper right part of that sub-window, you can see . If you press it, that sub-windows will turn and it will show more data about that tank.



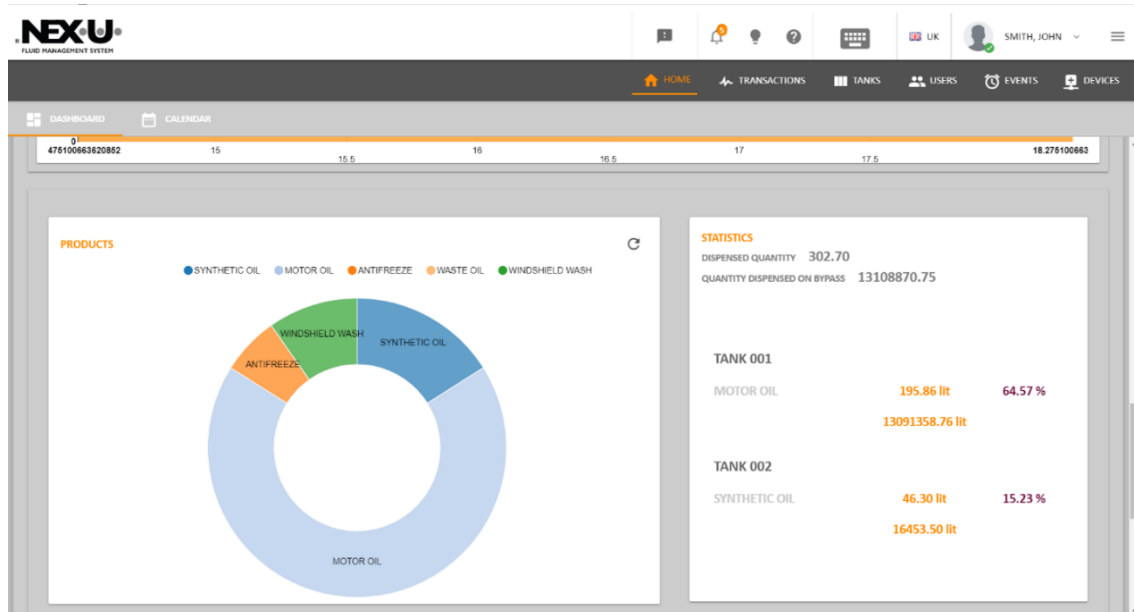
Below those sub-windows, you will find three more sub-windows. Left and right ones indicate the percentage of total fluid consumption since first U-Track installation. The one in the middle indicates the product variation referred to the previous month.



Below those sub-windows, you will find another sub-window in which you see the evolution of the liquid consumption.



Below those sub-windows, you will find two more sub-windows. They indicate the percentage of total fluid consumption since first U·Track installation.



As well you can see in the upper right part the dispensed quantity in bypass mode

In the last part of the screen, you can see a short summary of the last transactions and the last events.

The screenshot shows the NEXU Fluid Management System dashboard. The top navigation bar includes links for HOME, TRANSACTIONS, TANKS, USERS, EVENTS, and DEVICES. The main content area is divided into two sections: Transactions and EVENTS.

Transactions

CREATION DATE	WORKORDER	PRODUCT	LITERS
2/12/20 10:52	10	80001	10
1/12/20 15:38	10	80001	1
27/11/20 10:31	25473	80004	5.8
26/11/20 15:12	10	80001	7
23/11/20 11:31	10	80001	1

EVENTS

DATE	TYPE	GENERATED BY	MESSAGE
29/10/20 16:35	▲	L.fernandez@samoaindustrial.com	Dispense point 001 has been rebooted.
29/10/20 16:31	▲	L.fernandez@samoaindustrial.com	DEPÓSITO 005: Actualización de stock. NUEVO STOCK: 500 [Stock anterior: 0.00] [MVTO: +500.00]
29/10/20 16:28	▲	U-TRACK	TANK 005 (WASTE OIL) STOP
29/10/20 16:12	▲	U-TRACK	TANK 005 (WASTE OIL) STOP
29/10/20 16:06	▲	U-TRACK	TANK 005 (WASTE OIL) STOP

1.2 TRANSACTIONS

In the upper left part, of this screen you will find three options: Timeline, In Progress, Presets and API



If you press “Timeline” you will see all the active transactions (the ones which are being delivered or ready to be delivered)

ID	WORKORDER	DISPENSE POINT	PRODUCT	QUANTITY	CREATION DATE	CREATION BY	EXPORT
420	Redbh	UVALVE 001	MOTOR OIL	5,40 [5,40]	8/11/22 11:31	USER	
419	1234	UVALVE 007	ANTIFREEZE	2,00 [2,00]	27/10/22 17:16	USER	
418	Rty555	UVALVE 006	SYNTHETIC OIL	4,00 [4,00]	26/10/22 17:27	Sernow, Admin	
417	12345	UVALVE 009	ANTIFREEZE	5,50 [5,50]	26/10/22 17:28	USER	
416	TEST3	UUNIK 011	MOTOR OIL	0,00 [6,00]	26/10/22 17:21	USER	
415	hgg	UVALVE 001	MOTOR OIL	4,00 [4,00]	26/10/22 17:12	USER	
413	Gthjh	UUNIK 011	MOTOR OIL	0,00 [4,50]	26/10/22 17:09	Sernow, Admin	
412	1X4	UUNIK 011	MOTOR OIL	0,00 [5,40]	26/10/22 12:57	COMISTEOT, MIKAELE	
411	9876	UUNIK 011	MOTOR OIL	0,00 [7,00]	25/10/22 17:10	Sernow, Admin	
410	TEST7	UUNIK 011	MOTOR OIL	0,00 [4,00]	25/10/22 17:07	USER	
409	100	UUNIK 011	MOTOR OIL	0,00 [9,00]	25/10/22 17:04	USER	
408	fhhhh	UVALVE 009	MOTOR OIL	5,00 [5,00]	25/10/22 16:57	USER	
407	12345	UUNIK 011	MOTOR OIL	0,00 [1,50]	30/9/22 14:22	USER	
406	12345	UVALVE 002	SYNTHETIC OIL	4,95 [4,95]	30/9/22 14:10	USER	
405	Rty555	UUNIK 011	MOTOR OIL	0,00 [1,00]	29/9/22 19:00	USER	

In the upper left part of the screen, you will see the number of displayed transactions (in this case 356). If you click on the square, you will see all the transactions.

The columns show the following information:

First column: A consecutive number

Second column: Number of work order that is being delivered or ready to be delivered.

Third column: Dispensing point from which the product is being delivered or ready to be delivered.

Fourth column: Product that was delivered.

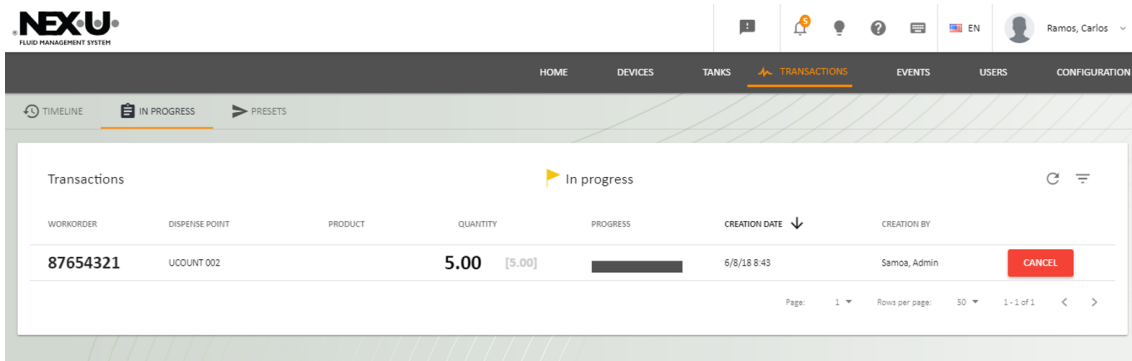
Fifth column: It shows two numbers. The first one shows the delivered quantity. The second one is the inserted quantity by the user when the work order was created.

Sixth column: It shows the transaction date of creation.

Seventh column: It shows who has created the transaction.

Eighth column: There is a flag which will be operative if there is a DMS link. If it is in green colour, it means that the transaction has been exported to the DMS. If it is in red colour, it means that the transaction has not been exported to the DMS. If it is in grey colour, it means there is no DMS,

If you press “In Progress” you will see all the active transactions (the ones which are being delivered or ready to be delivered)



The screenshot shows the NEX-U Fluid Management System interface. The top navigation bar includes HOME, DEVICES, TANKS, TRANSACTIONS (active), EVENTS, USERS, and CONFIGURATION. Below this, there are tabs for TIMELINE, IN PROGRESS (active), and PRESETS. The main content area displays a table titled 'Transactions' with a filter for 'In progress'. The table has columns: WORKORDER, DISPENSE POINT, PRODUCT, QUANTITY, PROGRESS, CREATION DATE, and CREATION BY. A single transaction is listed with WORKORDER 87654321, DISPENSE POINT UCOUNT 002, PRODUCT, QUANTITY 5.00 [5.00], PROGRESS bar, CREATION DATE 6/8/18 8:43, and CREATION BY Samoa, Admin. A red CANCEL button is visible next to the transaction.

WORKORDER	DISPENSE POINT	PRODUCT	QUANTITY	PROGRESS	CREATION DATE	CREATION BY
87654321	UCOUNT 002		5.00 [5.00]		6/8/18 8:43	Samoa, Admin

The columns show the following information:

First column: Number of work order that is being delivered or ready to be delivered.

Second column: Dispensing point from which the product is being delivered or ready to be delivered.

Third column: Product that being delivered or ready to be delivered.

Fourth column: It shows two numbers. The first one shows the delivered quantity. The second one is the inserted quantity by the user when the work order was created.

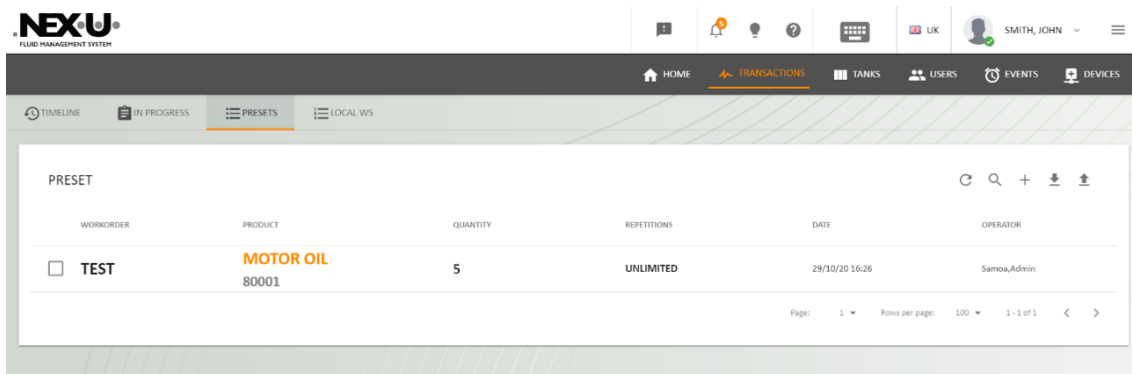
Fifth column: It shows a progress bar.

Sixth column: It shows the transaction date of creation.

Seventh column: It shows who created the transaction.

Eighth column: This button cancels the delivery. It gives an order to the system to close the solenoid valve and it cuts the delivery.

If you press “Presets” you will see all the transactions which have been created (kept in memory) but not delivered.



The screenshot shows the NEX-U Fluid Management System interface with the 'Presets' tab selected. The top navigation bar is the same as the previous screenshot. Below it, there are tabs for TIMELINE, IN PROGRESS, PRESETS (active), and LOCAL WS. The main content area displays a table titled 'PRESET'. The table has columns: WORKORDER, PRODUCT, QUANTITY, REPETITIONS, DATE, and OPERATOR. A single preset is listed with WORKORDER TEST, PRODUCT MOTOR OIL 80001, QUANTITY 5, REPETITIONS UNLIMITED, DATE 29/10/20 16:26, and OPERATOR Samoa, Admin. There is a checkbox next to the WORKORDER.

WORKORDER	PRODUCT	QUANTITY	REPETITIONS	DATE	OPERATOR
<input type="checkbox"/> TEST	MOTOR OIL 80001	5	UNLIMITED	29/10/20 16:26	Samoa, Admin

The columns show the following information:

First column: Number of work order that is being delivered or ready to be delivered.

Second column: Product / reference that is to be delivered.

Third column: Preset quantity that is to be delivered.

Fourth column: Number of repetitions allowed to be used under the work order.

Fifth column: It shows the transaction date of creation.


Sixth column: It shows who created the transaction.

In the upper left part, of this “Timeline” and “Presets” screens you will find several options




() refreshes the screen.

() allows to filter the transactions according to the text you insert.

() allows you to print the transactions. Once you enter this option, you can set the dates to print the transactions.

WORKORDER	TANK	HOSE REEL	PRODUCT	DATE	QUANTITY
10	TANK 001	UVALVE 010	MOTOR OIL	02/12/2020 10:52	10,00
10	TANK 001	UVALVE 010	MOTOR OIL	05/12/2020 15:58	1,00
25473	TANK 004	UVALVE 004	WINDSHIELD WASH	27/11/2020 10:31	5,80
10	TANK 001	UVALVE 010	MOTOR OIL	26/11/2020 15:12	7,00
10	TANK 001	UVALVE 010	MOTOR OIL	25/11/2020 11:31	1,00
ertertert	TANK 001	UVALVE 001	MOTOR OIL	20/11/2020 17:34	4,00
232323	TANK 004	UVALVE 004	WINDSHIELD WASH	20/11/2020 16:46	5,02
10	TANK 001	UVALVE 010	MOTOR OIL	20/11/2020 15:09	1,00
10	TANK 001	UVALVE 010	MOTOR OIL	18/11/2020 16:12	1,00

You can see that it is possible to make filters referred to a period (from / to)

() allows you to export the transactions to a csv file. You can see that it is possible to make filters referred to a period (from / to)

TIMELINE IN PROGRESS PRESETS LOCAL WS								
Transactions								
<div> <div>dd/mm/aaaa</div> <div>dd/mm/aaaa</div> <div></div> </div>								
ID	WORKORDER	DISPENSE POINT	PRODUCT	QUANTITY		CREATION DATE ↓	CREATION BY	EXPORT
<input type="checkbox"/> 119	10	UVALVE 010	MOTOR OIL	10,00	[10,00]	2/12/20 10:52	Samoa, Admin	
<input type="checkbox"/> 118	10	UVALVE 010	MOTOR OIL	1,00	[1,00]	1/12/20 15:38	Samoa, Admin	

() allows you to export the transactions to a MS Excel file.

() allows you to export the transactions to a csv file. You can see that it is possible to make filters referred to a Workorder and a period (from / to)

TIMELINE IN PROGRESS PRESETS LOCAL WS								
Transactions								
<div> <div>25473</div> <div>dd/mm/aaaa</div> <div>dd/mm/aaaa</div> <div></div> </div>								
ID	WORKORDER	DISPENSE POINT	PRODUCT	QUANTITY		CREATION DATE ↓	CREATION BY	EXPORT
<input type="checkbox"/> 119	10	UVALVE 010	MOTOR OIL	10,00	[10,00]	2/12/20 10:52	Samoa, Admin	
<input type="checkbox"/> 118	10	UVALVE 010	MOTOR OIL	1,00	[1,00]	1/12/20 15:38	Samoa, Admin	
<input type="checkbox"/> 117	25473	UVALVE 004	WINDSHIELD WASH	5,80	[5,80]	27/11/20 10:31	Samoa, Admin	
<input type="checkbox"/> 116	10	UVALVE 010	MOTOR OIL	7,00	[7,00]	26/11/20 15:12	Samoa, Admin	

() lets you add new transactions (only for Presets)

Presets

WORKORDER *

DFSDF

PRODUCT *

SYNTHETIC OIL

QUANTITY

12

REPETITIONS

SELECT VALUE...



NUMBER OF REPETITIONS *



4

SAVE

CANCEL TRANSACTION

() allows you to import / export Preset transactions from / to a csv file

For Preset transaction, you can tick any transaction and if you press , you will be able to change the preset work order and if you press , the transaction will be deleted.

1 item selected								
WORKORDER	PRODUCT	QUANTITY	REPETITIONS	Status	Close Date	Close By		
<input type="checkbox"/> 696969	ANTIFREEZE	8	4		15/2/18 12:24	Samoa, admin		
<input checked="" type="checkbox"/> 690061	SYNTHETIC OIL	15	15		15/2/18 12:24	Samoa, admin		

Presets

WORKORDER *

DFSDF

PRODUCT *

SYNTHETIC OIL

QUANTITY

12

REPETITIONS

SELECT VALUE...

NUMBER OF REPETITIONS *

4
















SAVE

CANCEL TRANSACTION

If you press API, you will see the transactions made with a particular Taylor-made configuration. This menu is not relevant for standard installations.



1.3 TANKS

This screen shows a complete situation of the tanks.

TANKS							
	NUMBER		TANK	DETAILS		STATUS	STOCK UPDATE
	1		TANK 001 MOTOR OIL 80001	STOCK: 0.00 CAPACITY: 1485 0 %	WARNING LEVEL: 300 STOP LEVEL: 100	OK	
	2		TANK 002 SYNTHETIC OIL 80002	STOCK: 1397.00 CAPACITY: 1485 94 %	WARNING LEVEL: 300 STOP LEVEL: 100	OK	
	3		TANK 003 ANTIFREEZE 80003	STOCK: 0.00 CAPACITY: 1485 0 %	WARNING LEVEL: 300 STOP LEVEL: 100	OK	
	4		TANK 004 WINDSHIELD WASH 80004	STOCK: 1388.06 CAPACITY: 1485 93 %	WARNING LEVEL: 300 STOP LEVEL: 100	OK	
	6		TANK 006 WASTE OIL 80005	STOCK: 0.00 CAPACITY: 1485 0 %		OK	
							001/1 ↑↓
Page: 1 Rows per page: 50 0 of < >							

First column: There is a little picture of the device (tank in this case).

Second column: The tank address is shown.

Third column: It shows if the tank is for delivery (fresh product)  or recovery (waste product) 

Fourth column: It shows a combination of the name of the tank and the name & reference of the fluid that is contained in the tank.

Fifth column: It shows the contained quantity, the maximum capacity and the percentage. For instance, for tank 1 the contained quantity 200 litres, the maximum quantity is 2000 litres and the percentage is 10 %.

Sixth column: It shows the warning and the stop levels set in the configuration menu.

Seventh column: It shows the status of the tank in case which are


OK – If level is above warning level.

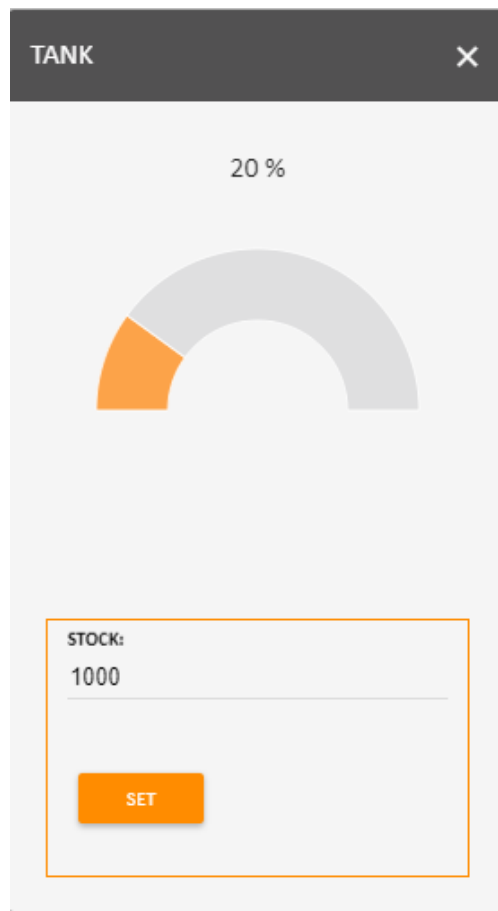
ALARM – If level is between warning level and Stop level

STOP – If level is in stop point

BYPASS – If the bypass key has been activated and the air solenoid valves are open.

UNKNOWN – If there is a connected probe and there is any fault.

Eighth column: If you press  a pop-up window appears and you can see the stock level (if a U-Tank is not installed. If it is installed, the icon will be grey colour)



You can change the stock level and then you must press the SET button. NOTE: The maximum quantity has to be lower than the capacity of the tank.

The upper part of the pop-up window shows the percentage of the filling percentage and a semicircle that shows the filling sector.

Ninth column: It shows if there is a connected probe or not. If so, an icon will appear



: Volumetric Probe



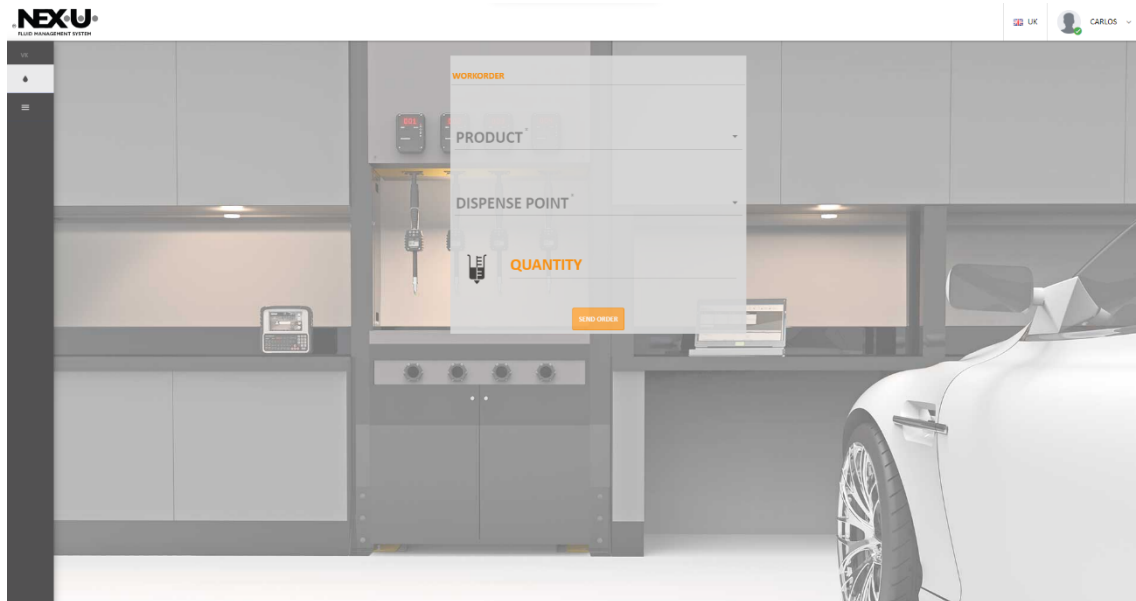
: Contact Probe

1.4 USERS

In this screen you can create / modify / delete users. There are two different kinds of users:

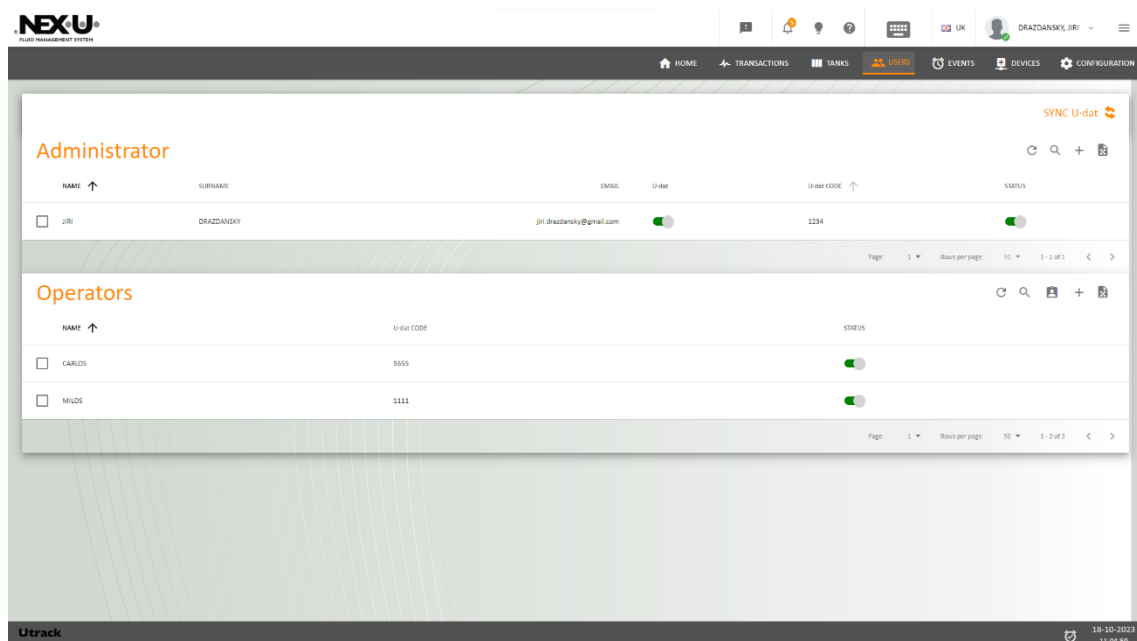
Administrator: It has got the manager rights and can access all the windows of chapter 7. This user will NOT have access to the configuration menu. The front page will NOT include this option.

Operators: It has got rights only for dispensing work orders and if you insert the User / Password in the U-Track, it will go to the Virtual Keypad (see chapter 8)



If you want to create a new user, you must press **+**. This will open a new window which will be different if you want to create an administrator or an operator.

Administrator:



You can set the following parameters

Name / Surname / Email. These fields are compulsory.


U·Track Password. It must contain at least one number and one capital letter. Minimum number of characters must be eight.

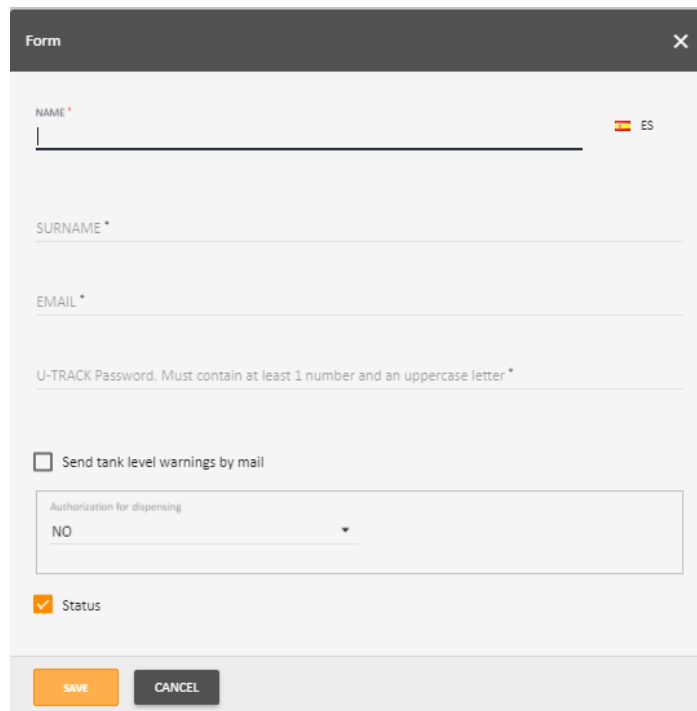
Send tank level warnings by mail: If you tick this option, an email will be sent to the user when a level alarm in the tanks is reached.

Authorization for dispensing. You can set if this user can deliver oil in the U·Dat. If you choose YES, the system will ask for a code.

As well, you can choose the interface language by clicking the flag.

You can set the status of the user. For instance, you can disable it when the user leaves the company.

As well you will see this icon  If you click on it, all the Administrators / Operators will be sent to the installation.



Form

NAME *

SURNAME *

EMAIL *

U-TRACK Password. Must contain at least 1 number and an uppercase letter *

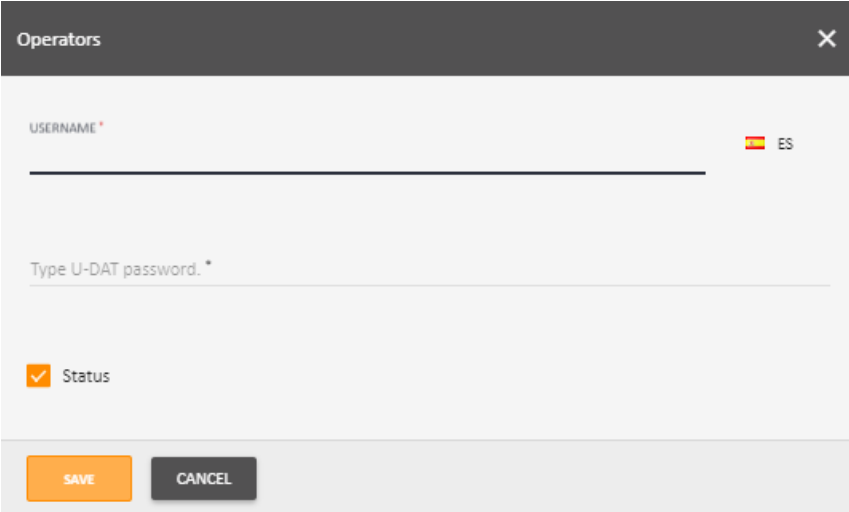
☐ Send tank level warnings by mail

Authorization for dispensing
NO

☒ Status

SAVE CANCEL

Operators:



The screenshot shows a modal window titled "Operators" with a close button (X) in the top right corner. The form contains the following elements:

- A "USERNAME *" field with a red asterisk indicating it is compulsory. To the right of the field is a language selector showing a Spanish flag and the code "ES".
- A "Type U-DAT password. *" field with a red asterisk indicating it is compulsory.
- A checkbox labeled "Status" which is currently checked.
- At the bottom, there are two buttons: "SAVE" (orange) and "CANCEL" (grey).

User name. This field is compulsory.

U-Dat Password. It is recommended to insert numerical digits.

As well, you can choose the interface language by clicking the flag.

You can set the status of the user. For instance, you can disable it when the user leaves the company.

1.5 EVENTS

In the upper left part, of this screen you will find two options: New and Timeline



If you press “New” you will see all the new events that took place in the system.

NEX-U
FUEL MANAGEMENT SYSTEM

HOME TRANSACTIONS TANKS USERS **EVENTS** DEVICES CONFIGURATION

NEW TIMELINE

EVENTS

DATE	GENERATE BY	MESSAGE	TYPE	PRESS TO CONFIRM
4 oct. 2023 15:57:28	U-TRACK	TANK 001 (15W40) STOP	▲	✓
4 oct. 2023 17:00:04	U-TRACK	TANK 002 (0W80) STOP	▲	✓
4 oct. 2023 17:20:58	U-TRACK	TANK 002 (0W80) STOP	▲	✓
4 oct. 2023 17:28:40	U-TRACK	TANK 002 (0W80) STOP	▲	✓
4 oct. 2023 17:59:18	U-TRACK	TANK 002 (0W80) STOP	▲	✓
4 oct. 2023 17:58:58	U-TRACK	TANK 002 (0W80) STOP	▲	✓
4 oct. 2023 18:00:40	U-TRACK	TANK 001 (15W40) STOP	▲	✓
4 oct. 2023 18:00:08	U-TRACK	TANK 001 (15W40) STOP	▲	✓
4 oct. 2023 18:00:00	U-TRACK	TANK 001 (15W40) STOP	▲	✓
4 oct. 2023 18:00:36	U-TRACK	TANK 001 (15W40) STOP	▲	✓
4 oct. 2023 18:40:42	U-TRACK	TANK 002 (0W80) STOP	▲	✓

Página: 1 Más por página: 50 1 - 11 de 11

Utrack 19-10-2023 17:21:01

If you press “Timeline” you will see a timeline of all the events, when they were confirmed and who confirmed them.

NEX-U
FUEL MANAGEMENT SYSTEM

HOME TRANSACTIONS TANKS USERS **EVENTS** DEVICES CONFIGURATION

NEW TIMELINE

EVENTS

TYPE	GENERATED BY	MESSAGE	DATE	CONFIRMATION DATE	CONFIRMED BY
▲	jiri.drazdanský@gmail.com	Dispense point 001, CLEAN MAC	18/10/2023 11:35	18/10/2023 15:35	DRAZDANSKY, JIRI
▲	carlos.ramos@ramcoindustrial.com	Dispense point 001 has been rebooted.	04/10/2023 17:31	04/10/2023 17:31	Ramos, Carlos
▲	carlos.ramos@ramcoindustrial.com	DISPENSE POINT 001, BYPASS MODE: OFF	04/10/2023 17:30	04/10/2023 17:30	Ramos, Carlos
▲	carlos.ramos@ramcoindustrial.com	DISPENSE POINT 001, BYPASS MODE: ON	04/10/2023 17:30	04/10/2023 17:30	Ramos, Carlos
▲	carlos.ramos@ramcoindustrial.com	Dispense point 001 has been rebooted.	04/10/2023 17:29	04/10/2023 17:29	Ramos, Carlos
▲	U-TRACK	TANK 002 (0W80) STOP	04/10/2023 17:28	04/10/2023 17:28	Ramos, Carlos
▲	carlos.ramos@ramcoindustrial.com	TANK 001: Update stock. NEW STOCK: 135 [Previous stock: 125.00] [MVTO: +10.00]	04/10/2023 17:25	04/10/2023 17:25	Ramos, Carlos
▲	carlos.ramos@ramcoindustrial.com	TANK 001: Update stock. NEW STOCK: 125 [Previous stock: 0.00] [MVTO: +125.00]	04/10/2023 17:25	04/10/2023 17:25	Ramos, Carlos

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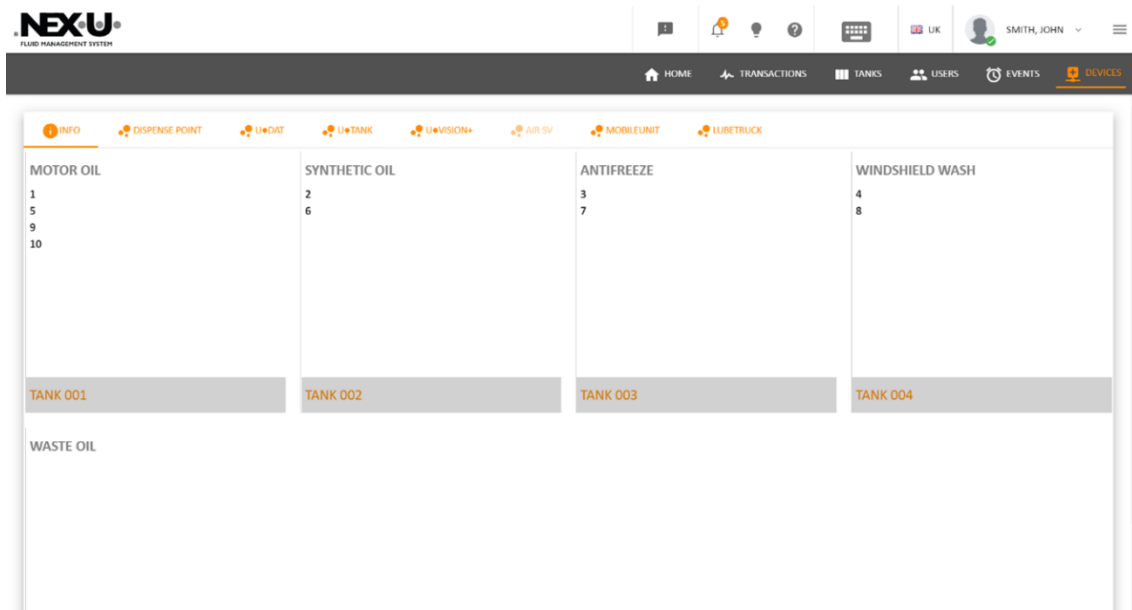
Utrack 19-10-2023 17:22:31

1.6 DEVICES

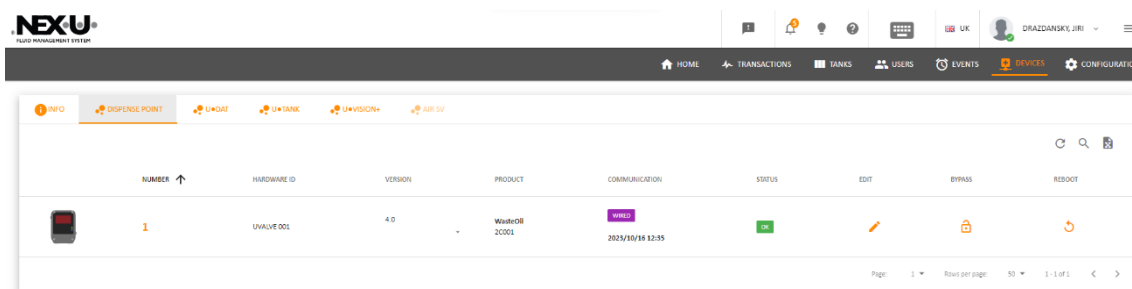
1.6.1 DISPENSE POINT

This screen shows a complete situation of the connected devices of the installation. Also, in this window you can change some of the parameters. These are the labels you can find

INFO: It will show a snapshot of the complete installation. It will show the association between tanks, products and dispensing points.



DISPENSE POINT: It shows the configuration of the dispensing points.



First column: There is a little picture of the device.

Second column: The address is shown. It represents the number of the local parameter.

Third column: It shows the description of the device. This description is the one that was set in the configuration menu.

Fourth column: It shows the loaded device firmware version. As well there is an option for enabling (BLE 1) or disabling (BLE 0) Bluetooth® feature of the unit and for Cleaning the acquired MAC of the U-Vision or U-Vision+.


Fifth column: It shows the product that is delivered (if the device is a delivery one) or shown (if the device is a display one)

Sixth column: It shows the way the device is connected. It can be either wired or Wi-Fi (Wireless) linked.

WARNING: If Wireless is shown, it could not mean that the device is wireless connected. It means that it the device is communicating to the U·Net through a device that is wireless connected.

A date/time is shown as well. This indicates the last moment in which right communication was held between the U·Net and the device. If date/time is old (more than a few minutes), it means that there is something wrong with the communication.

Seventh column: It shows the status of the device. In the above screenshot you can see that all of them are OK (fully operational). If BYPASS is shown, it means that the solenoid valve of that device is open via software (see Ninth column)

Eighth column: In this column you can edit some of the device parameters. If you press the icon , a pop-up window appears and you will be able to change some of the parameters. For U·Valve / U·Count you can change the following parameters




- Pulse meter value:

This parameter corresponds to the nominal value of the pulse meter. For example, the U·Valve incorporate a pulse generator of 328 Pulses per litre. The allowed range is 10 to 1000 pulses per litre.

- SV aperture delay

Regulates the time the solenoid valve takes to open after the transaction confirmation. The allowed range is 0 to 600 seconds.

- Suspension time

It regulates the pause time without receiving pulses from the pulse generator. If the transaction is interrupted for a time longer than this value, the transaction is counted as finished and the solenoid valve closes automatically. The allowed range is 0 to 900 seconds.

- Top Up time

It regulates the waiting time after the initial transaction is completed, making it possible to do an additional topping in the same transaction although the preset quantity is achieved. After this stated time, it is not possible to dispense an additional quantity to the transaction and it is considered as completed. For example, we have ordered 4 litres and after that these 4 litres have been dispensed, this is the time available for making an additional topping to the original transaction (for example another 0.2 litres, because even if we initially thought that the crank case had 4 litres, when the 4 litres are dispensed and the dip stick is checked we see that we need to fill in a little more). During this time, the display integrated in the U·Valve or U·Count will show “top” giving the possibility to extend the transaction. The allowed range is 0 to 1800 seconds.

- Remote Display 1 / Remote Display 2

If any U·Views are installed, it is possible to show the delivered quantity in up to two U·Views. You can set the U·View number in this menu.

- Max Quantity

In this option it is possible to set the maximum quantity that can be delivered through this device. The allowed range is 0 to 999 litres.


- K Factor

This is the calibration factor that is automatically set when the calibration procedure is followed in the device. In any case, it is possible to change it manually if the value is already known. The allowed range is 500 to 1500.

- Display Quantity

Activates or deactivates the showing of the transaction on the display integrated on the U·Valve or U·Count. If this option is not chosen, “falling angles” are showed on the display during the transaction.

Ninth column: It shows if the device is in bypass mode via software or not. If it is not, the padlock is closed. If so, it is open. You can set the device to bypass mode (open solenoid valve) by clicking on the padlock.

Tenth column: If you press  the device gets rebooted just in case it gets frozen.


In the upper right part of the window there are three icons.




The first one refreshes the readings; the second one allows to make a search in the table and the third one allows to export data to a MS Excel spreadsheet.

F18				
	A	B	C	D
1	NAME	VERSION	PRODUCT	
2	UVALVE 001		SYNTHETIC OIL	
3	UVALVE 002		MOTOR OIL	
4	UVALVE 003		ANTIFREEZE	
5	UVALVE 004		WINDSHIELD	

For U·Link, it is not possible to change any parameters.



	11	ULINK 011	1.18	MOTOR OIL 80001	2023/03/10 13:02		41:6B:19:16		
---	----	-----------	------	--------------------	------------------	---	-------------	---	---

First column: There is a small picture of the device.

Second column: The address is shown. It represents the number of the local parameter.

Third column: It shows the description of the device. This description is the one that was set in the configuration menu.

Fourth column: It shows the loaded device firmware version.

Fifth column: It shows the product that is delivered (name and reference)

Sixth column: It shows the way the device is connected. For U·Link, obviously it will be wireless (ZigBee®).

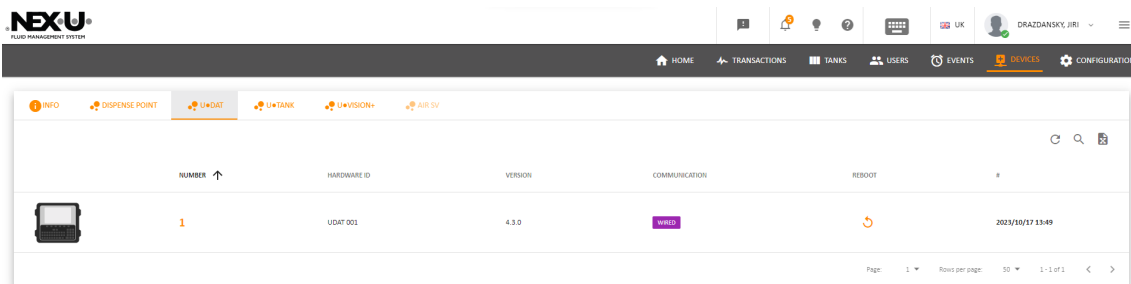
A date/time is shown as well. This indicates the last moment in which right communication was held between the U·Net and the U·Link. If date/time is in the past (more than a few minutes depending on the installation size), it means that there is something wrong with the communication.



Seventh column: It shows battery load of the device.

Eighth column: In this column you can see the ZigBee® module MAC address.

1.6.2 U·DAT

This screen shows a complete situation of the connected U·Dat. Also, in this window you can change some of the parameters.



INFO	DISPENSE POINT	U·DAT	U·TANK	U·VISION+	AIR SV
					
NUMBER ↑	HARDWARE ID	VERSION	COMMUNICATION	REBOOT	#
1	UDAT 001	4.3.0	WIRELESS		2023/10/17 13:49

First column: There is a little picture of the device.


Second column: The address is shown. It represents the number of the local parameter.

Third column: It shows the description of the device. This description is the one that was set in the configuration menu.

Fourth column: It shows the loaded device firmware version.

Fifth column: It shows the way the device is connected. It can be either wired or Wi-Fi (Wireless) linked.

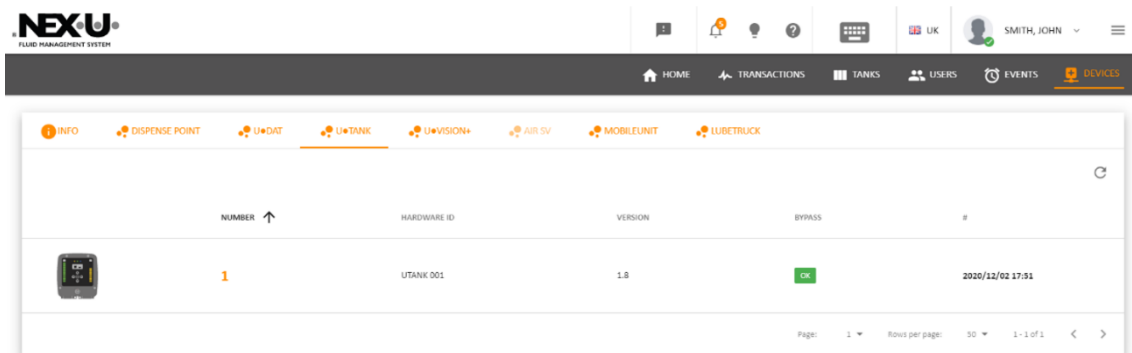
WARNING: If Wireless is shown, it could not mean that the device is wireless connected. It means that it the device is communicating to the U·Net through a device that is wireless connected.

Sixth column: If you press  the device gets rebooted just in case it gets frozen.


Seventh column: A date/time is shown as well. This indicates the last moment in which right communication was held between the U·Net and the device. If date/time is old (more than a few minutes), it means that there is something wrong with the communication.

1.6.3 U·TANK

This screen shows a complete situation of the connected U·Tanks. Also in this window you can change some of the parameters.



The screenshot shows the NEXU Fluid Management System interface. The top navigation bar includes icons for Home, Transactions, Tanks, Users, Events, and Devices. The main menu has tabs for INFO, DISPENSE POINT, U·DAT, U·TANK (selected), U·VISION+, AIR DV, MOBILEUNIT, and LUBETRUCK. The U·TANK tab displays a table with the following data:

	NUMBER ↑	HARDWARE ID	VERSION	BYPASS	#
	1	UTANK 001	1.8	OK	2020/12/02 17:51

At the bottom, there is a pagination bar showing 'Page: 1', 'Rows per page: 50', and '1 - 1 of 1'.

First column: There is a little picture of the device.

Second column: The address is shown. It represents the number of the local parameter.

Third column: It shows the description of the device. This description is the one that was set in the configuration menu.

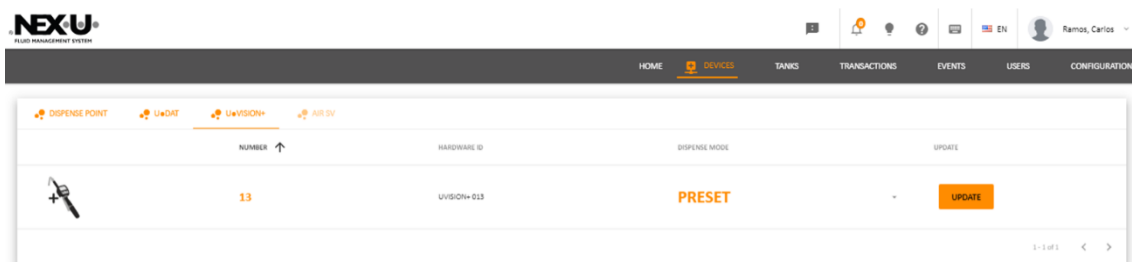
Fourth column: It shows the loaded device firmware version.

Fifth column: It shows the status of the device. In the above screenshot you can see that all of them are OK (fully operational). If BYPASS is shown, it means that the solenoid valves connected to that device are open.


Sixth column: A date/time is shown as well. This indicates the last moment in which right communication was held between the U·Net and the device. If date/time is old (more than a few minutes), it means that there is something wrong with the communication.

1.6.4 U·VISION+

This screen shows a complete situation of the connected U·Vision+. Also, in this window you can change some of the parameters.



The screenshot shows the NEXU Fluid Management System interface. The top navigation bar includes icons for Home, Transactions, Tanks, Users, Events, and Configuration. The main menu has tabs for DISPENSE POINT, U·DAT, U·VISION+ (selected), and AIR DV. The U·VISION+ tab displays a table with the following data:

	NUMBER ↑	HARDWARE ID	DISPENSE MODE	UPDATE
	13	UVISION+ 013	PRESET	<button>UPDATE</button>

At the bottom right, there is a pagination bar showing '1 - 1 of 1'.

First column: There is a little picture of the device.

Second column: The address is shown. It represents the number of the local parameter.

Third column: It shows the description of the device. This description is the one that was set in the configuration menu.

Fourth column: It shows the dispense mode for the U·Vision+ (you can choose between NORMAL and PRESET)

Fifth column: It shows the update button.

1.6.5 AIR SV

In this screen you can set the date/time in which the solenoid valve is open in automatic mode.


You can set it to manual mode by choosing the option (AUTOMATIC / MANUAL)

1.7 CONFIGURATION

You will be able to change some parameters of the installation.

1.7.1 PRODUCTS

In this screen can change some parameters of the products of the installation.

Press the icon  (upper right part) and a popup window appears.

Part Number: This is the part number of the product and must be the same as the one defined in the customer DMS (This parameter is compulsory)

Name: This is the name of the product and has to be the same as the one defined in the customer DMS (This parameter is not compulsory)

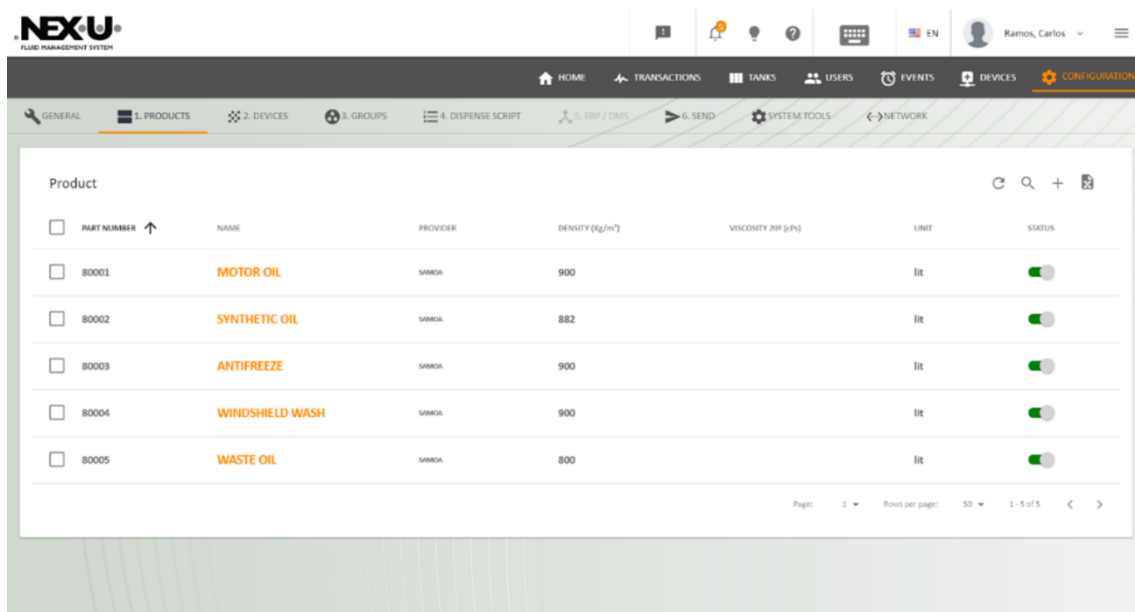
Provider: This is the provider of the product (This parameter is compulsory)

Density: This is the density parameter and must be inserted in kg/cm³. This parameter is compulsory if the installation has a U-Tank.

Viscosity: This is the viscosity parameter and has to be inserted in cPs

Unit: In this screen you must define the unit you want to work. There are two options. Litres and Gallons.

Once you have finished, press **SAVE** to save the changes.




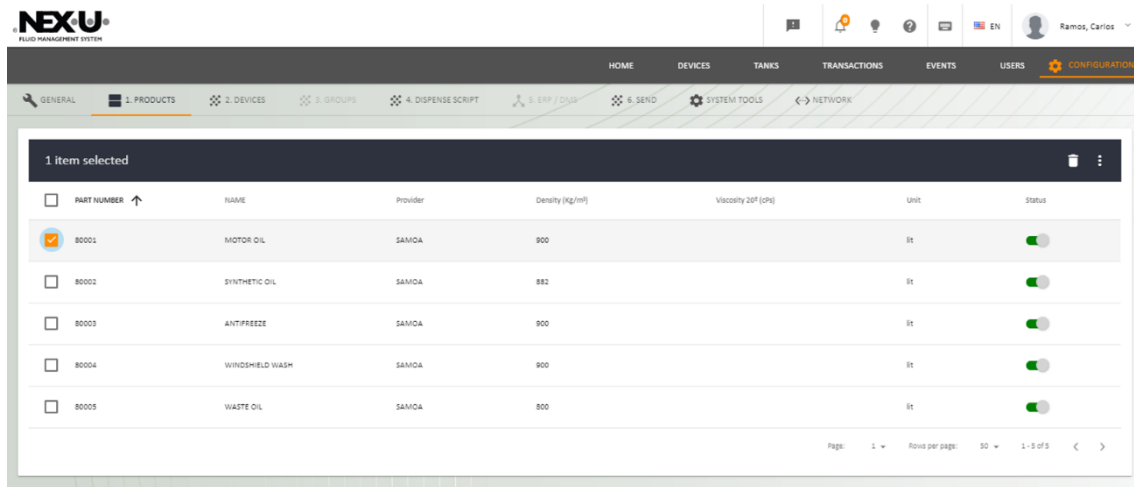
<input type="checkbox"/>	PART NUMBER ↑	NAME	PROVIDER	DENSITY (kg/m ³)	VISCOSITY 20P (cPs)	UNIT	STATUS
<input type="checkbox"/>	80001	MOTOR OIL	SARMA	900		lit	<input checked="" type="checkbox"/>
<input type="checkbox"/>	80002	SYNTHETIC OIL	SARMA	882		lit	<input checked="" type="checkbox"/>
<input type="checkbox"/>	80003	ANTIFREEZE	SARMA	900		lit	<input checked="" type="checkbox"/>
<input type="checkbox"/>	80004	WINDSHIELD WASH	SARMA	900		lit	<input checked="" type="checkbox"/>
<input type="checkbox"/>	80005	WASTE OIL	SARMA	800		lit	<input checked="" type="checkbox"/>

At the end of the line, you can see a column with “Status”. If it is active (green) it means that the product is active and it is part of the installation.

If the customer stops using that product, you have to create a new one and deactivate the previous one (click in the button and it will be red). The product that is not used any more will not be removed from the system.



If you want to change any parameters of any product previously created, please tick the line and press  (in the right part of the screen) to make the changes.



In this menu you will be able to make groups with certain privileges to restrain the ability of dispensing products or using hose reels or keypads.

Press + and a Pop-up window will appear

GROUP

NAME *

This field is required

USERS

PRODUCTS

DISPENSE POINT

U-DAT

☒ Active

SAVE

CANCEL

Name: You can make a brief description of the group (i.e.: Mercedes-Benz Users)

Users: You can set the customers in this group

Products: You can set the products that the customers can dispense

Dispense Point: You can set the dispense points in which the customers can dispense

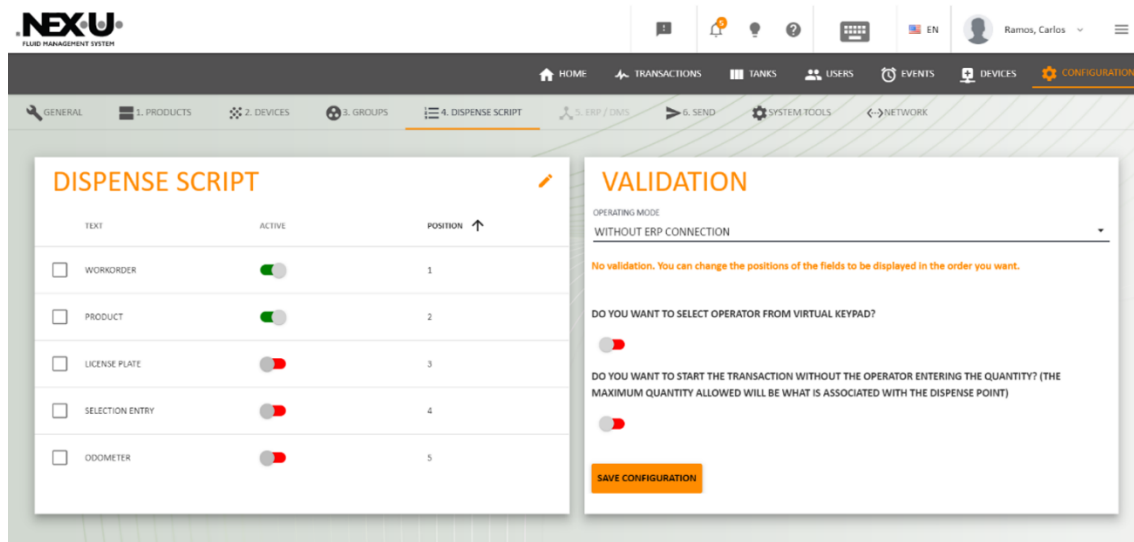
U-Dat: You can set U-Dat in which the customers can dispense


Active: You can enable or disable this group by ticking/unticking this option.

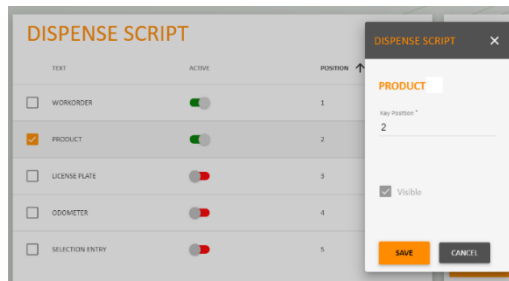
1.7.3 DISPENSE SCRIPT

With this option you will set the way you want to insert the job orders as well as more data.

On the left part of the screen (Dispense Script) you can see which are the required data when you insert a job order. If you want the data to be required, you have to move the button to the right so that the colour gets green.



If you click on the tick of any text and then , a new screen will appear and you will be able to choose the key position in which the text appears when the job order is inserted.



On the right part of the screen (Validation) you can set how you want to work. There are several options.

- Without ERP connection: No validation from the Data Management System (DMS). You can change the positions of the fields to be displayed in the order you want.

You can select if an operator can be selected from virtual keypad.

As well, you can choose to deliver oil without inserting a quantity

- Workorder Validation: Before the transaction is allowed, the work order is sent to the DMS for validating. If the DMS confirms that the work order exists, the user may continue with the process, otherwise access is denied.

With this option you can choose to deliver oil without inserting a quantity

As well, you can set an Override code just in case you need to make a dispense without entering a job order.

- Preset: (Validated Preset Transactions). The user types the work order and selects the product. The system searches in the local database and check if it exists. If it exists, the

required quantity is returned. The same workorder with different products cannot be used, in that case use the PRELOAD mode

- ERP Preset: The user types the work order and selects the product. The system asks DMS if the order is opened and associated with that product. If it is, the DMS set the required quantity.
- Preset Direct: The user concatenates work order and dispense point in the work order field (XXXXX.YYY). The system sends the information to the DMS and the DMS, if the information is validated, returns the maximum quantity.
- Product Preload: The user types the work order and selects the product. The system searches in the local database and check if it exists. If so, the required quantity is returned.

There is an option in which the user can modify the preset quantity.

- Menu Pricing: The DMS sends work orders to the local database via web services. The system validates the work order and the DMS asks for the dispensed quantity after the transaction is completed.
- API: The DMS sends work orders to the local database via web services. The system validates the work order and the DMS asks for the dispensed quantity after the transaction is completed.

You can set an Override code just in case you need to make a dispense without entering a job order.

- CDK Global: Before the transaction is allowed, the work order is sent to the CDK GLOBAL for validating. If the DMS confirms that the work order exists, the user may continue with the process, otherwise access is denied.

With this option you can choose to deliver oil without inserting a quantity

As well, you can set an Override code just in case you need to make a dispense without entering a job order.

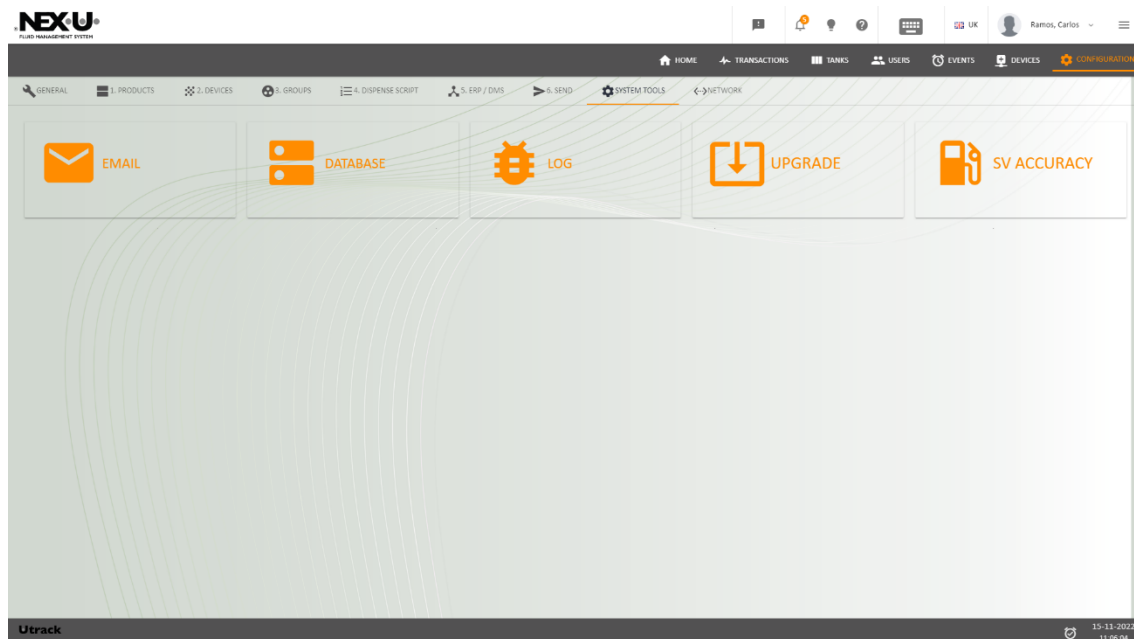
- All in One: Before the transaction is allowed, the work order is sent to the CDK GLOBAL for validating. If the DMS confirms that the work order exists, the user may continue with the process, otherwise access is denied.

As well, you can set an Override code just in case you need to make a dispense without entering a job order.

- Asanet: Asanet sends the list of work orders and positions, with associated product. See the transactions in the preset list. Format WORKORDER.POSITION.

1.7.4 SYSTEM TOOLS

In this menu you have four options.




EMAIL: With this menu you can check if the mail delivery option is properly set. You have to say if this email is either Cloud-based or SMTP. In this case, apart from a valid email, you will have to insert all the SMTP parameters. If the email setting is properly made, you will receive an email from nexulinter@gmail.com



DATABASE: You can find two different characteristics

Query: You can set several options

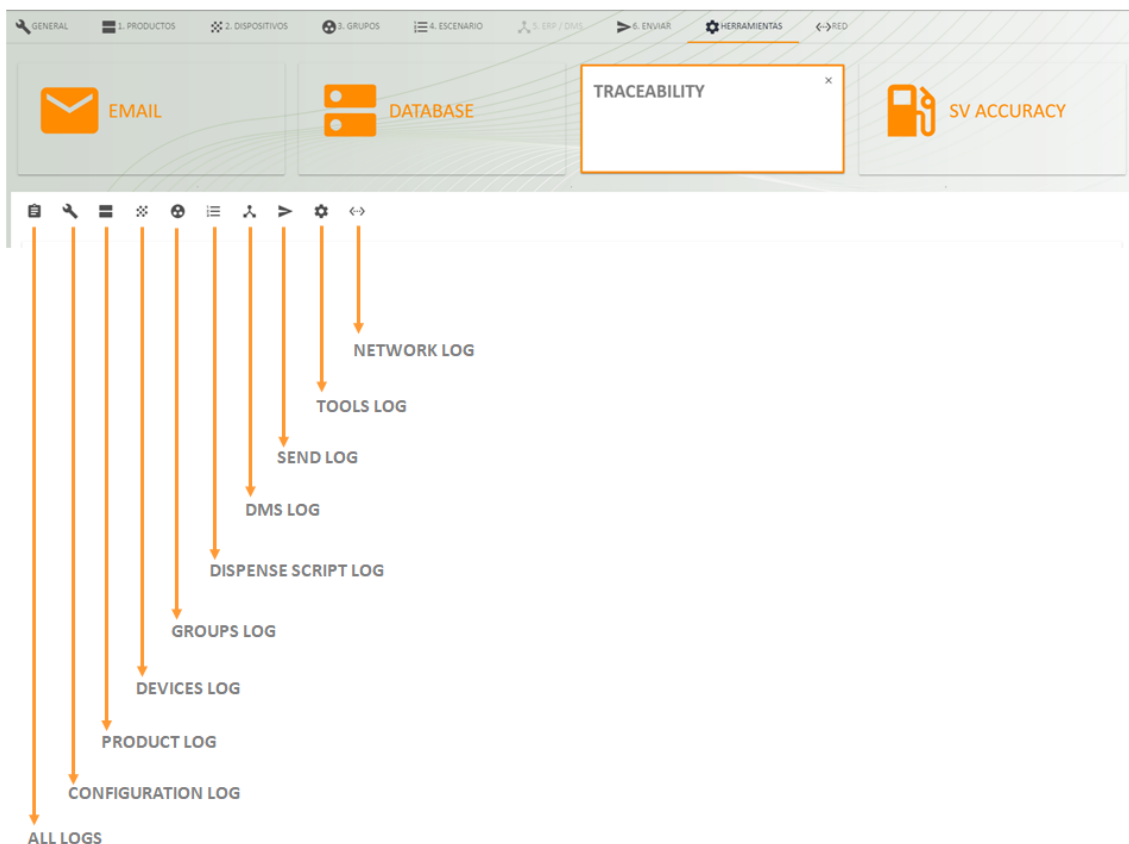
- **Customer ID:** You can set the text that will appear in the upper left part of the home screen.
- **Show / Hide Disabled users:** If any users / administrators are disabled, this option enables hiding of those users / administrators in the list.
- **VK User (Session time):** Time in which the virtual keypad is closed once the transaction is completed.
- **Close VK sessions:** It closes all the virtual keypads which are open at that moment.
- **Decimal separator:** It sets the decimal separator. Either “,” or “.”
- **Delete TR in progress:** It deletes the transactions in progress which are stuck in the process (due to a power cut, for instance)
- **Delete Transactions:** It deletes the transactions already made. This is useful when you want to delete the test transactions in the commissioning process.
- **Delete Events:** It deletes the events already made. This is useful when you want to delete the test transactions in the commissioning process.
- **Delete Comdevice:** It restart the devices communication parameters.
- **API Token:** Required data when Taylor-made configuration is made. No data must be inserted if you are creating an standard configuration.

To get into that option, you have to click on the left orange icon (i. e. )

Backup: You can set two options:

- Create: If you press the icon , a configuration and transactions backup is made in the USB dongle inserted in the rear part of the U·Net (NOTE: The U·Net automatically back up the configuration and transactions data weekly)
- Restore: If you press the icon , a configuration and transactions backup is uploaded from the USB dongle inserted in the rear part to the U·Net. WARNING: All the data in the U·Net will be deleted once you make this action.

LOG: It shows the configuration changes traceability.



UPGRADE: Not available in this version.

SV ACCURACY: With this option you can set a more precise calibration.

The first step is to select the dispense point. After pressing PRESS TO GET PARAMETERS button to get the dispense point settings.


The software will show PPL and K FACTOR and ask for the dispensed quantity over the required quantity.

With that information the system calculates anticipation parameter and by pressing the **SEND** button it is set in the configured unit.


2 QUICK PANEL


In the upper part there is a menu with several options













The first icon () shows the U·TRACK version and allows a NEX·U: CANBUS reset.


v4.2.0 04/2024

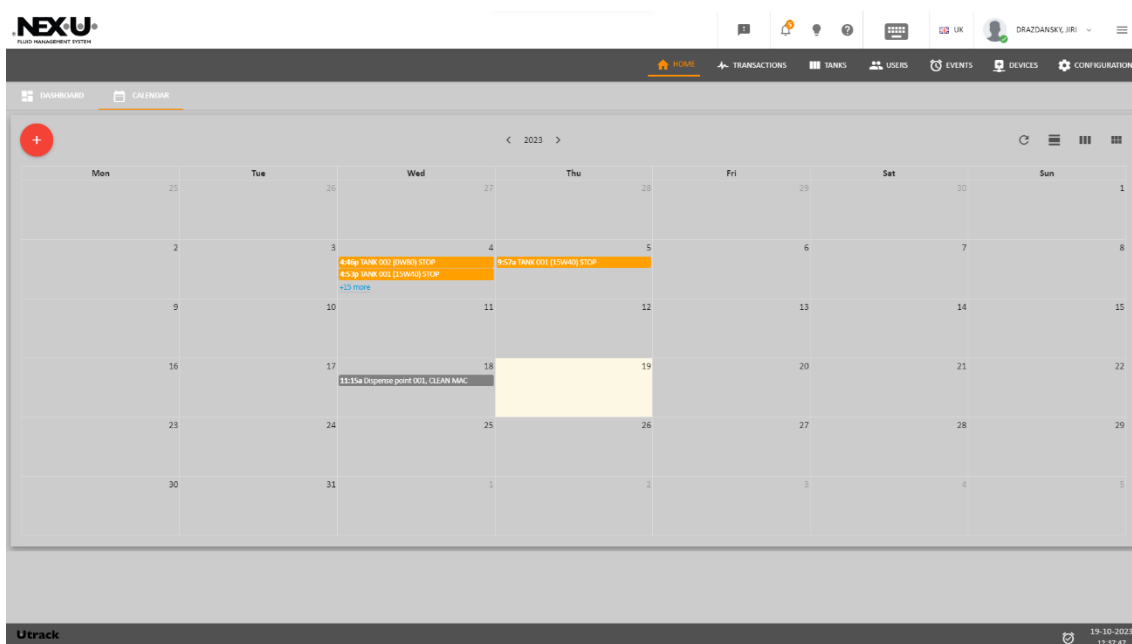
 CANBUS RESET

The second icon () shows the last five alarms.


Alarms last 5 days (5)

	CUVE001(10W30) 1500 2018-07-14T23:25:25.409Z	
	CUVE001(10W30) 1500 2018-07-14T23:25:24.361Z	
	CUVE001(10W30) 1500 2018-07-14T23:25:23.941Z	
	CUVE001(10W30) 1500 2018-07-14T23:25:22.457Z	
	CUVE001(10W30) 1500 2018-07-14T23:25:21.496Z	

The third icon () shows a calendar with the events that took place in the chosen period.

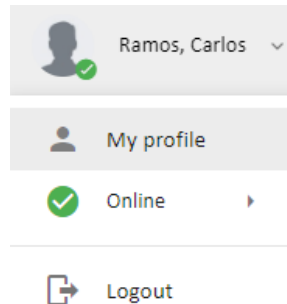


The fourth icon () shows the help menu

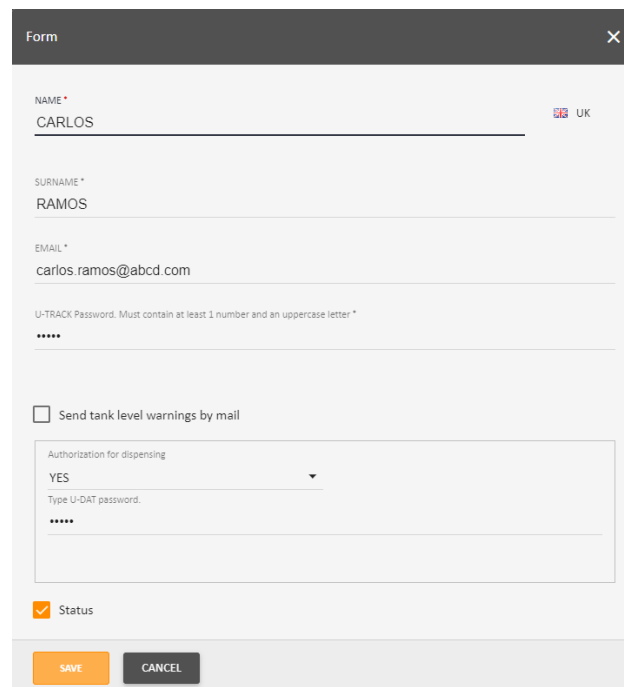
The fifth icon () opens the virtual keypad (see chapter 8)

The sixth icon allows changing the interface language for the U·Track (Note: This language can be set for each user)

The seventh icon allows changing the profile (My profile), shows the status and or closes the session (Logout).




If you choose My profile, you will be able to change all the data of the current user.


 A 'Form' window with a close button (X) in the top right corner. The form contains the following fields and options:

- NAME ***: Text input with 'CARLOS' and a language selector 'UK' with a flag icon.
- SURNAME ***: Text input with 'RAMOS'.
- EMAIL ***: Text input with 'carlos.ramos@abcd.com'.
- U-TRACK Password. Must contain at least 1 number and an uppercase letter ***: Password input field with masked characters '*****'.
- ☐ Send tank level warnings by mail
- Authorization for dispensing**: A dropdown menu currently showing 'YES'.
- Type U-DAT password.**: Password input field with masked characters '*****'.
- ☒ Status


 At the bottom are two buttons: 'SAVE' (orange) and 'CANCEL' (grey).

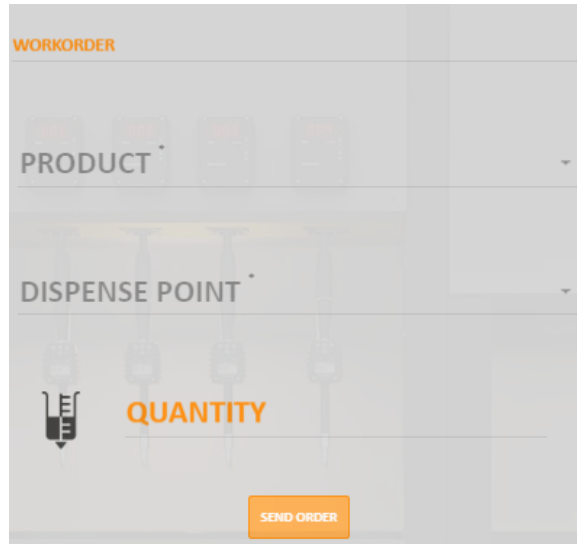
The eight icon () shows two different options: INFO and USERS

INFO: You will see date, number of available Virtual Keypads and UNET MAC

USERS: You will see the number of administrator currently using the system, number of open Virtual Keypads (VK) and number of APP users (option not available in August 2024)

3 VIRTUAL KEYPAD

In the upper right part of the window, you can find this icon: . This is the virtual terminal and it allows creating transactions to deliver product. If you click the icon, you will see this window




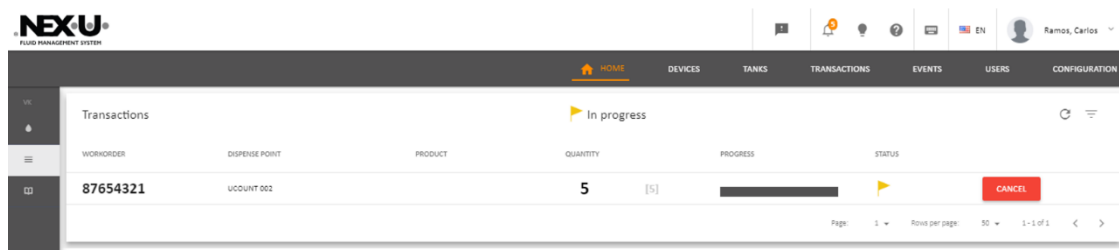
Depending on the order mode, you can insert:

Workorder / Product / Dispense Point / Quantity

NOTE: When you choose a product, only the points in which you can dispense that product are available.

In the left part you can see several icons that show the following items.

In the  icon you can see the transactions in progress





WORKORDER	DISPENSE POINT	PRODUCT	QUANTITY	PROGRESS	STATUS
87654321	ACCOUNT 002		5 [5]	<div></div>	In progress CANCEL

4 U-LINK MENUS

DEVICE TURN ON/OFF

If you press any of the UP/DOWN keys, the display is activated. Then the name of the equipment is briefly displayed. The gun automatically switches off after 30 seconds of inactivity to save energy

MAIN MENU

Press ENTER  and CANCEL  buttons until the setup menu is displayed (it takes about 3 secs).

The SETUP screen will appear.

Pressing the UP/DOWN buttons allows navigation through menu functions.

RF TEST

This menu allows us to obtain the RSSI transmission signal value (in dBm) and to display it graphically in order to get an idea of how good or bad is our signal. As well, the more “archs” you will see, the better signal value (at least two archs recommended)

CALIBRATE

See chapter 15

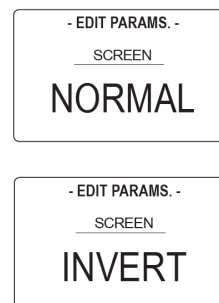
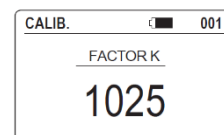
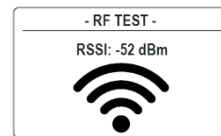
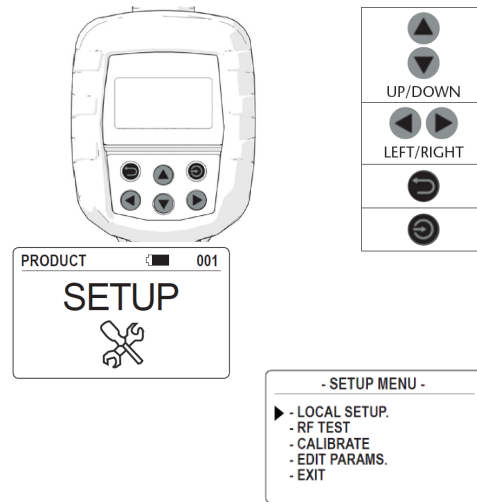
EDIT PARAMS / FACTOR K

Calibration factor (K-factor): allows the calibration factor to be changed manually without performing the vessel calibration process. Use the UP/DOWN buttons to change it and press the ENTER button to confirm.

Calibration Factor = Qty on Screen / Real Dispensed Qty * 1000

DISPLAY ORIENTATION

This menu allows you to change the direction of the display (normal or inverted), so that the gun can be adapted to the specific location and the way it is used. Use the UP/DOWN arrows to select the desired screen direction (standard or upside down – inverted) and press the ENTER button to confirm and exit the menu.



5 U·DAT OPERATION

DEVICE TURN ON/OFF

The U·Dat can be operated through the alphanumeric keyboard. In some occasions, the selection of some field will be required on touch screen.





To turn on the device, power up the unit. After a while, the home screen will show up.

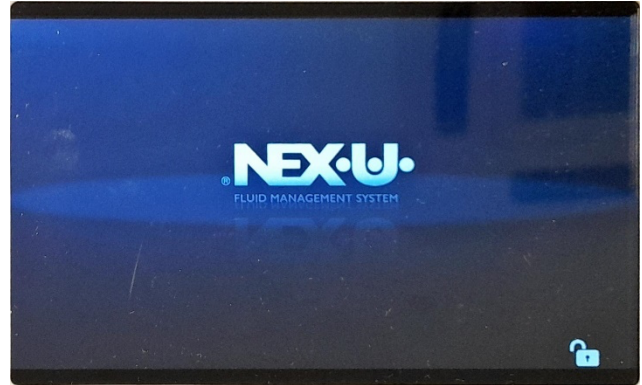
Regardless of the menu shown on screen, after a period of inactivity, the application will come back to the home screen.

MAIN MENU

From the home screen, press the shortcut key associated with the unlock icon to access the main menu.



This screen shows the selected language  UK, the U·Dat local parameter , the date and time , and the available menus:

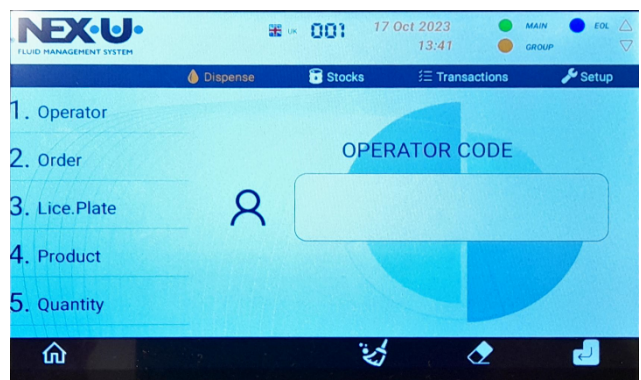
Dispense , Stocks , Transactions  and Configuration . Press the associated shortcut key to access the desired menu.



5.1 DISPENSE MENU

The “Dispense” menu allows, once the operator has inserted the identification, to dispense the quantity of the selected product.

While you are setting up the dispensing, you can return to the previous screen by pressing  and to the home screen by pressing the  key.



To start dispensing, follow the following procedure:

1. Operator

Select the “operator” field on the screen and enter your code by keyboard. Then, press







Optionally, you can log in by using RFID or magnetic key if these devices have been provided to you. NOTE: The RFID code is not set by the customer but by the card manufacturer.

2. Order

In the “order” menú, select the “work order” field and enter the order you want to execute.


Press  to confirm.

3. Product



Select the product field on the screen and use the shortcut keys associated with the navigation buttons   to select the fluid to dispense. Then, select the dispensing point field on the screen and, using  , select the desired hose reel.

Press  to confirm.

1. Quantity

Select the “Quantity” field on the screen and enter the volume to be dispensed using the keyboard. Press  to confirm.

2. Summary and Confirmation

Finally, a summary screen that presents all the data entered in the 4 previous steps is displayed on the screen. If any of these parameters need to be modified press the cancel key  and if they are correct press the confirmation key  to start the dispensing.

TRANSACTIONS IN PROGRESS

Immediately after launching a transaction from the “dispense” menú, the “transactions in progress” screen is displayed.

All transactions in progress are displayed on the screen. Using the navigation buttons and you can scroll through the list.

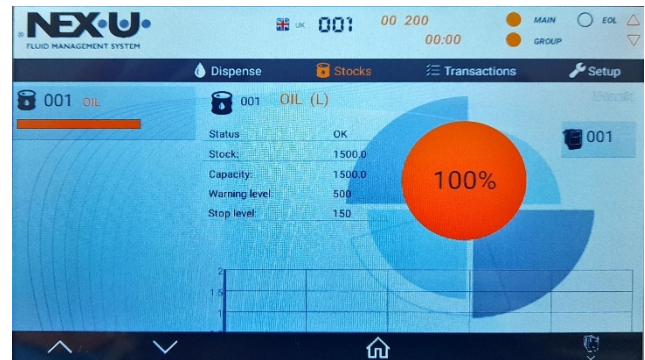
EMERGENCY STOP

Transactions in progress can be stopped by pressing the cancellation button. Then, the cancellation confirmation of the order will be displayed on the screen. Enter the operator code and press the confirmation button to confirm the transaction cancellation.


The emergency stop can only be used by the operator who has initiated the order or by the “manager” user.

5.2 STOCKS MENU

The “Stocks” menu shows the status of each tank and the associated dispensing units as well as an evolution of the stock.

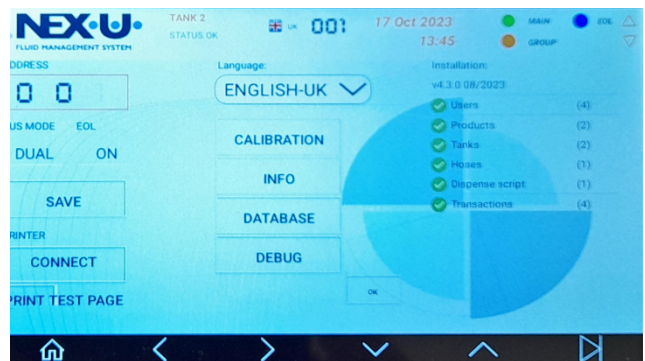


5.3 COMPLETED TRANSACTIONS MENU

To see the completed transactions press the shortcut key associated with the button . Press  to alternate the transactions in progress view.

5.4 CONFIGURATION MENU

The “Configuration” menu lets the engineer that makes the configuration to set the local parameters. Please check Chapter 4.5.3.



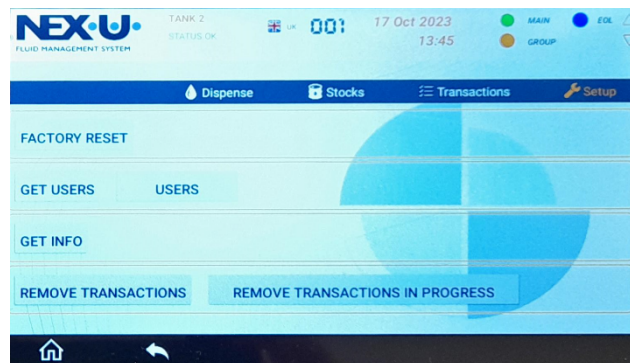
PRINTER: Just in case you want to link a NEX·U· Bluetooth® ticket printer, please click on CONNECT. A new screen will appear and the possible printers will appear. If no printers appear, please click on SCAN. Once you have found the desired printer, please click on the printer and it will be linked to the system.

Once the Bluetooth® ticket printer configuration has been made, you can print a test page (PRINT TEST PAGE)
CALIBRATION: Please check Chapter 12



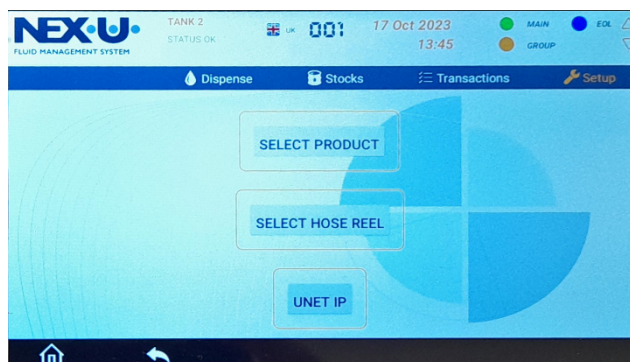
INFO: If you click on that option, you will have these options

- Factory Reset: The U-Dat will go back to default values.
- Get Users: If you click on that option, all the installation will acquire the administrators and operators from the U-Track.
- Users: The U-Dat will show the administrators and operators in the memory.
- Get Info:
- Remove Transactions: All the recorded transactions will be removed.
- Remove Transactions in Progress: All the in-progress transactions will be removed.



DATABASE: If you click on that option, you will have these options

- Select Product: When you order a dispense, the screen will show the products in the installation when the desired one is chosen, the available hose reels for those product are shown.
- Select Hose Reel: When you order a dispense, the hose reel is required and then the quantity.
- U-Net IP: The U-Net IP will appear on the screen.



DEBUG: Only for manufacturer service purposes.

6 U·VISION+ OPERATION

If the unit has been properly configured a short press on the power button shows on the screen the “ready for use” mode.



When the screen is displayed, the backlight is activated during 10 seconds and then turned off. After 30 seconds since the display is activated and if there is no transaction in progress, the unit will turn off to save energy. If the unit is off press the power button to activate it.

If the screen is ON and you want to activate the backlight press briefly the power button in order to activate it for 10 seconds.

Once it is ON, you will have to insert the following data

- User Pin.
- Job Order.
- Quantity.

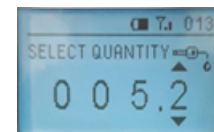
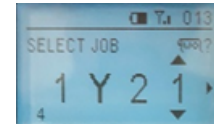
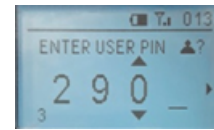
You will have to use the  and  keys to go to the desired digit.

For going to the next (previous) position, you have to press  or .

If you have chosen “Preset”, then only the pre-recorded job orders will appear when the job order is requested.

Once you have finished, please press .

In the “ready for use mode” are displayed the product associated to the hose reel, the battery charge indicator, the wireless strength and the hose reel number paired.

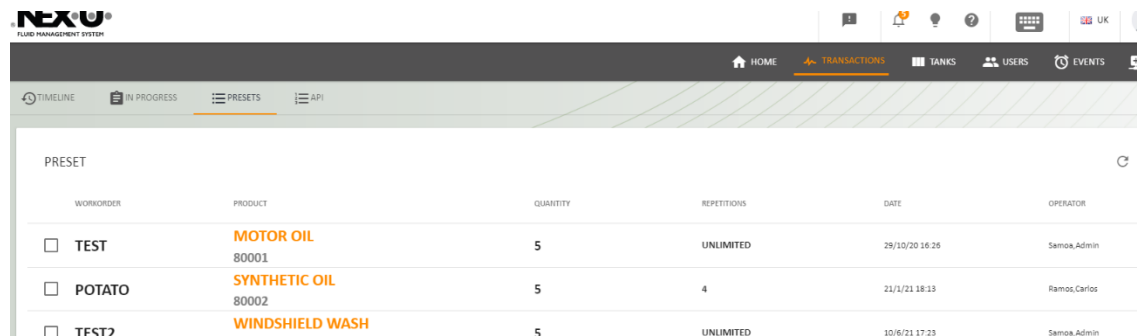


7 U·LINK MODES

There are three dispensing modes for the U·Link.

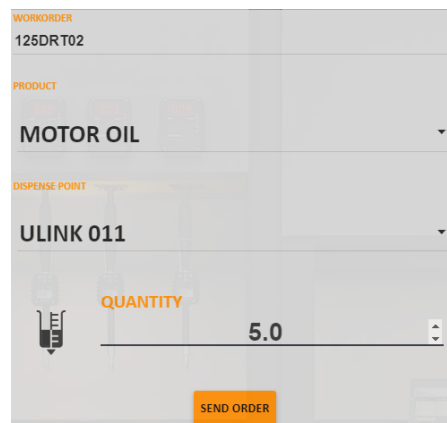
Standard mode: In this case, the user must enter technician PIN number manually io with an RFID tag, then job order and quantity

Preset: In this case, the job order is pre-recorded in the U·Track (go to Transactions / Presets menu) and the user must scroll and choose the job order in the U·Link. Then quantity confirmation in the U·Link is required.



PRESET						
	WORKORDER	PRODUCT	QUANTITY	REPETITIONS	DATE	OPERATOR
<input type="checkbox"/>	TEST	MOTOR OIL 80001	5	UNLIMITED	29/10/20 16:26	Samos, Admin
<input type="checkbox"/>	POTATO	SYNTHETIC OIL 80002	5	4	21/1/21 18:18	Ramos, Carlos
<input type="checkbox"/>	TFS2	WINDSHIELD WASH	5	UNLIMITED	10/6/21 17:23	Samos, Admin

Remote mode: In this case, job order is launched in the virtual keypad then quantity confirmation in the U·Link is required.



WORKORDER
125DRT02

PRODUCT
MOTOR OIL

DISPENSE POINT
ULINK 011

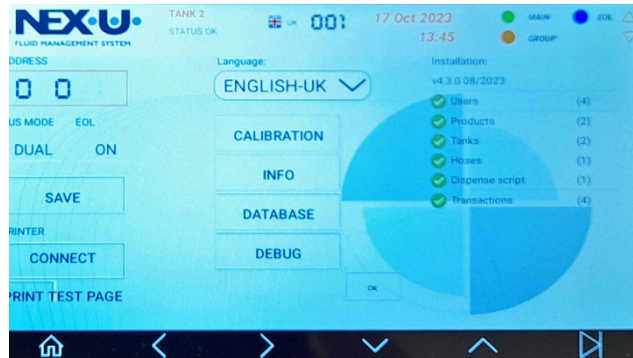
QUANTITY
5.0

SEND ORDER

8 HOSE REEL CALIBRATION

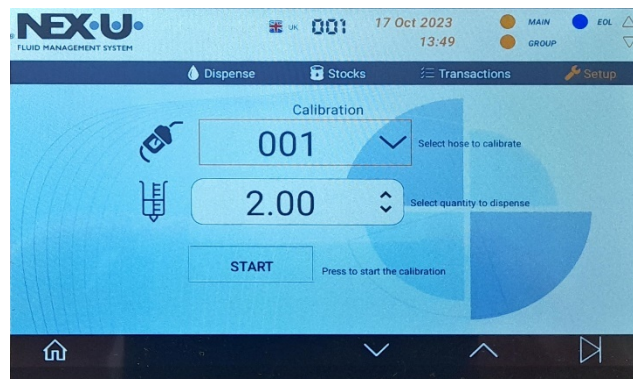
There are two ways of reaching to the calibration menu

1. Go to the configuration menu, two consecutive access codes are required. The first one is (four dots) and then the system will ask for another one which is NEXU. You will go to the following screen



2. Or, you can go to the configuration menu and only one code is required. The code is CAL

In both cases, you will see this screen



Insert the hose reel you want to calibrate.

Insert the volume of the calibrated measure in which the calibration.

Press "Start".

Deliver the quantity that was set in the "Requested Quantity" field.

Then you will have to press CALIBRATE and the new K Factor will appear on screen and the delivery device will be calibrated.

9 U-LINK CALIBRATION

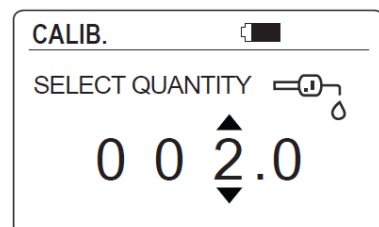
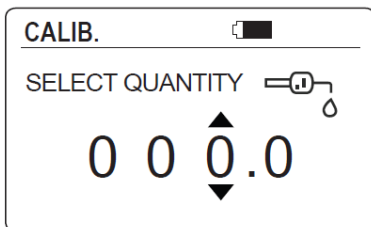
DEVICE TURN ON/OFF

If you press any of the UP/DOWN keys, the display is activated. Then the name of the equipment is briefly displayed. The gun automatically switches off after 30 seconds of inactivity to save energy



CALIBRATE

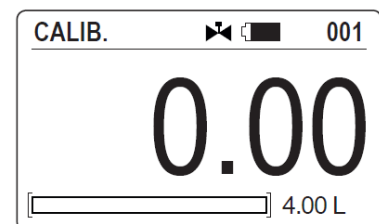
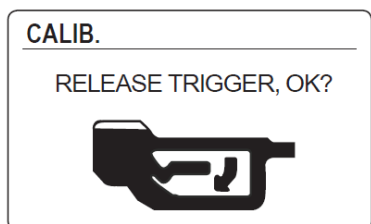
Enter the amount to be dispensed (typically the amount indicated on the container) by selecting the desired digit using the LEFT/RIGHT buttons and changing its value using the UP/DOWN buttons.



Once the amount is set, press ENTER to confirm and you will be prompted to confirm that you are not pressing the trigger.

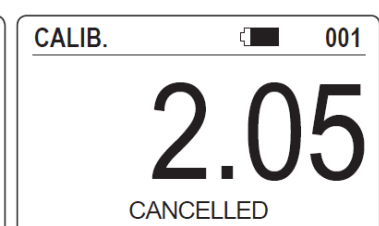
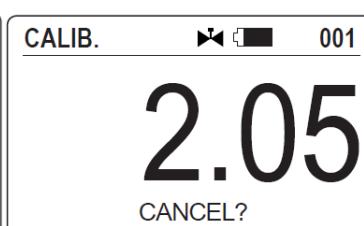
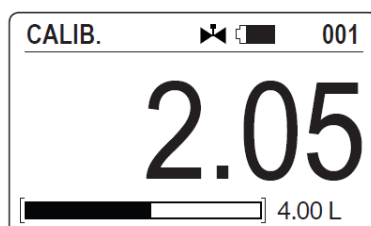
Make sure that the trigger is not pulled and press the ENTER button below.

The pre-selected quantity is displayed and you can start dispensing fluid into the container. To ensure that you can adjust while dispensing, a quantity equal to twice the value entered is preset for safety.



When you have dispensed the target amount into the calibrated container, release the trigger to stop the fluid supply.

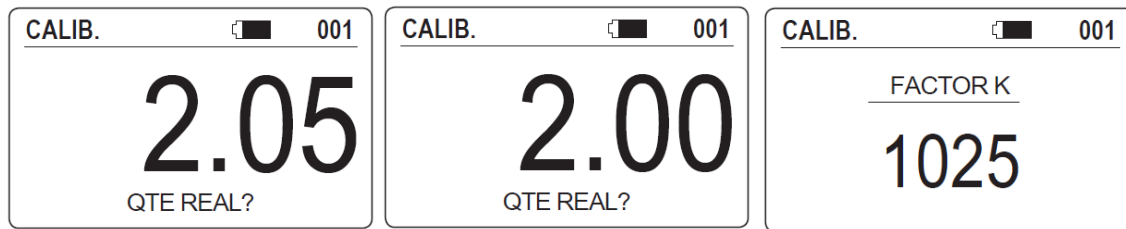
Press the CANCEL button and you will be asked if you wish to cancel to finish dispensing. If we have finished, we will confirm by pressing the ENTER button. If, on the contrary, we want to continue dispensing, we will press the CANCEL button.



The dispensed quantity is displayed and after 5 seconds the message “QTE REAL?” is shown on the display. We must indicate the actual dispensed quantity, which will be the quantity registered by the calibrated container.

The UP/DOWN buttons are used to modify the digit value and the LEFT/RIGHT arrows are used to change the digit.

Once this amount has been set, press the ENTER button to confirm and the gun automatically displays the calculated calibration factor:

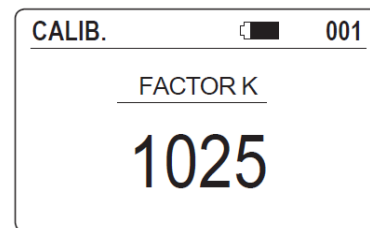


EDIT PARAMS / FACTOR K

You can calibrate the unit by changing the K factor manually without performing the vessel calibration process.



Use the UP/DOWN buttons to change it and press the ENTER button to confirm.

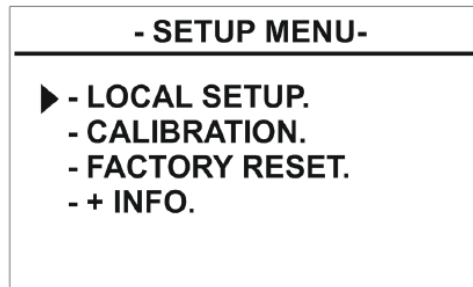
Calibration Factor = Qty on Screen / Real Dispensed Qty * 1000



10 U-TANK ANALOGUE PROBES CALIBRATION

This section only applies to analogue probes.

Insert the by-pass key into the unit and switch from normal position () to by-pass position (). The main menu will appear on screen:




WARNING: When the unit is in bypass mode, both the general air supply and the pump control valves will be permanently activated.


When making initial configuration (or after replacing a probe), each analogue probe must be calibrated. Note that before probe calibration, the configuration for the tank must have been already received, otherwise an error message will pop up.

The arrow at the left side of the screen indicates the currently selected option.

Use the UP/DOWN keys on the keypad to go to CALIBRATION and press "OK" to confirm.

- Select the channel that is going to be calibrated (1 or 2). Use the UP/DOWN keys on the keypad to select the desired option and press "OK" to confirm, or press  to go back to the main menu.
- The unit will ask to put the probe outside of the fluid. Make sure that the probe to be calibrated is at atmospheric pressure (outside of the tank, not submerged or in contact with the fluid) and press "OK" to confirm.

NOTE: If the probe is at atmospheric pressure and an acceptable value is measured, the system will proceed to the next screen, otherwise an error message will appear.

- Then set the probe height inside the tank. This height is the distance between the bottom end of the probe and the bottom of the tank. Use UP/DOWN keys on the keypad to enter the value (in centimeters) and press "OK" to confirm, or press  to go back to the previous step.
- At this point, the display will show "OK! CALIBRATION FINISHED", to confirm that the calibration values have been successfully recorded.

NOTE: To protect the probe from dirt or debris on the bottom of the tank, it is not recommended to let the probe touch tank bottom.