

MCO GO

Software manual



GENERAL WARNINGS

IMPORTANT INFORMATION

For operators' safety and to prevent any damage to the distribution system or to hardware devices, the instruction manual must be fully read and understood before carrying out any operation on software applications for the MCO GO product range. The company rejects any responsibility due to malfunctions or damage coming from a missed or incomplete knowledge of this manual.

Storage of the manual

This manual must always be used as a reference for all topics. The final user and the skilled technicians authorised for installation, use and maintenance of the software must always be able to read it at any time.

Notes about validity

This manual was created with the utmost care. Nonetheless, involuntary omissions or inaccurate content or procedures might be present. PIUSI S.p.A. rejects any responsibility for the validity of the contents of this document or for changes it might undergo over time, for example with software and dedicated device updating and improvements. The illustrations provided mainly refer to the software configured in the English version and might not correspond to the displayed versions, also because of further version updates.

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1. INTRODUCTION TO THE SYSTEM

This manual describes the operation of the MCO GO system, which is used to manage the dispensing of fluids in a workshop in a simple way. The MCO GO system is easy to install and configure, and all system devices are 'Plug and Play'. The system is standalone and does not require the installation of any PC software. Every control unit can be connected to the MCO GO CLOUD to log fluid transactions in multiple workshops in a centralised manner.

The system has the following components:



- **MCO GO CONTROL UNIT:** the electronic touchscreen device which runs the MCO GO software;
- **GPV 2.0:** the integrated unit with solenoid valve and meter which handles the dispensation of the fluids;
- **EASYVIEW (optional):** the gun with display which connects wirelessly to the GPV.
- **SWITCH (8 ports):** a device included with the control unit, used to connect all MCO GO devices on a single network;
- **PRINTER (optional):** prints out the work order tickets;
- **MCO GO CLOUD:** cloud infrastructure which logs the fluid transactions in the various workshops using the MCO GO cloud service. Refer to the web application manual for details.

N.B.

Before you start using the software, we recommend you install and initialise the MCO GO system, following the instructions given in the printed 'Installation, user and maintenance manual' for the MCO GO CONTROL UNIT included with the device.

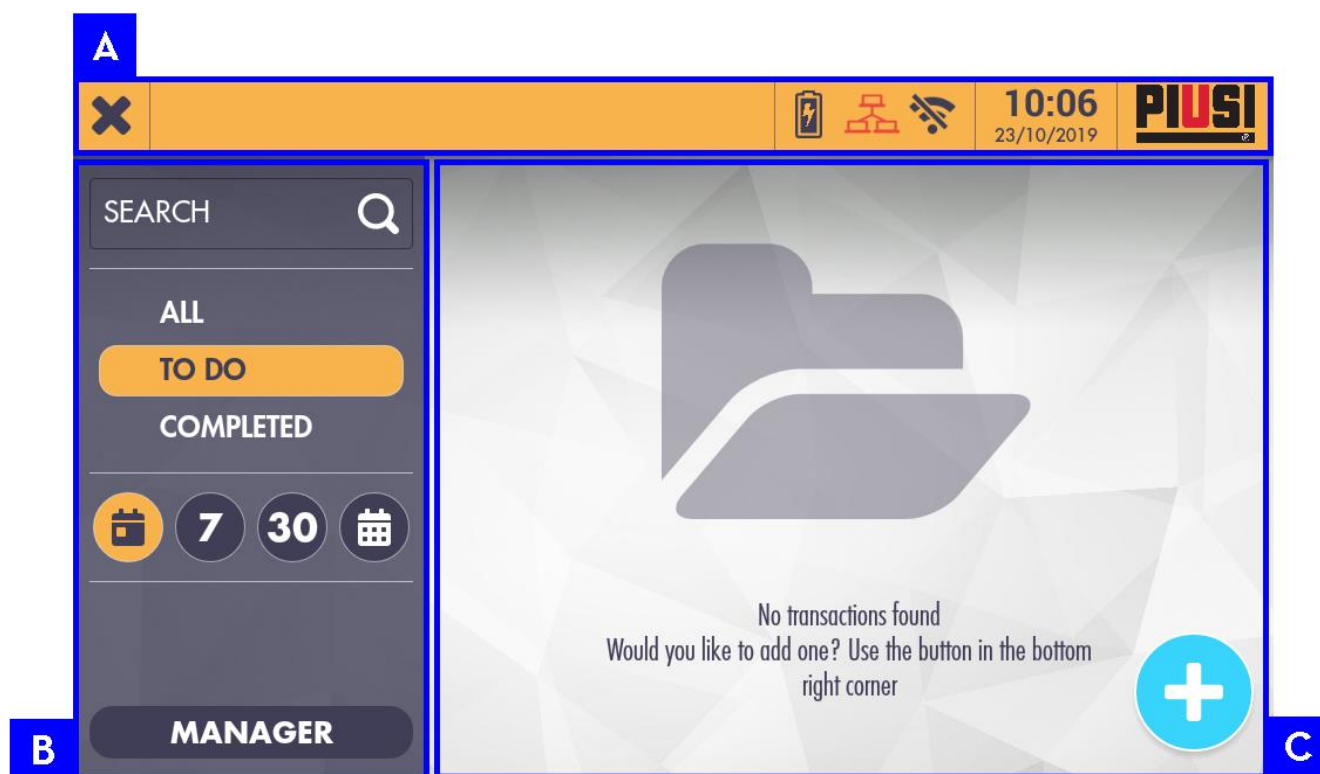
2. FIRST STEPS

Once you have completed the first configuration (refer to the installation and user manual included with the control unit) proceed as follows to execute your first transaction:

1. **Scanning and configuring the GPVs** (see Chapter 4.2): Once you have cabled the control unit and its GPVs to the switch, run an automatic scan of the network to identify the connected GPVs. If the scan terminates successfully, manually configure the GPVs by assigning them a fluid, tank and area. We recommend calibrating the GPVs before you use them to dispense fluid.
2. **Creating the register of operators** (see Chapter 4.3): If you wish to protect transactions by means of pincode authentication, you must create a register of operators (mechanics). Each operator will have his own pincode which he will then use to authenticate himself with the system before each operation.
3. **Configuring the system** (see Chapter 4.1): Make sure that the system settings are correct and suited to the type of workshop.
4. **Starting a new transaction** (see Chapter 5): To start a new transaction, go to the system's main page, click on , enter your operator pincode, fill out all fields of the transaction and select the GPV you wish to use, then click on  to start the operation.









3. MAIN PAGE



The interface of the MCO GO software has been developed to offer a simple utilisation experience, to improve daily work without complicated manoeuvres. The main page displays whenever the device is started up:




In detail:


- A. **HEADER:** this panel displays while you are browsing the menus, and contains:
 1. **Navigation panel:** shows the name of the current section and allows you to browse the menus with the following buttons:
 - **Back:** returns you to the previous menu.
 - **Home:** returns you directly to the main page.
 2. **Notification panel:** displays all system warnings:
 - **Battery status:**
 - **Charging** - the control unit is connected to electrical power.
 - **Discharging** - the control unit is disconnected from electrical power.

- Ethernet status:
 -  Connected
 -  Disconnected
 - Wi-Fi status:
 -  Connected
 -  Disconnected
 - USB key status
 -  Connected and working
 -  Connected and not working
 -  Connecting
 -  **CLOUD data synchronisation** – this icon displays when there is data to be synchronised in the cloud (for Wi-Fi synchronisation only).
3. **Date and time:** displays the system date and time (see Chapter 4.1.1 for how to change these settings)

B. **FILTER PANEL** The / buttons in the header open and close the transaction filter panel. You can filter transactions by:






1. Transaction code, with a text search.
2. Status:
 - All system transactions;
 - Uncompleted transactions, i.e. scheduled, in progress, waiting for top-up and partial transactions.
 - Completed transactions.
3. Date of execution:
 - Only today;
 - a week ago (from today);
 - a month ago (from today);
 - a year ago (from today);

The panel also allows you to the system manager's protected area by clicking on  (see Chapter 4).

C. **TRANSACTION LIST:** This is a chronological listing of all transactions run by the system. You can filter and find a transaction in the filter panel. You can create a new transaction by clicking on .










Detail of a listed transaction:

1. **Completion date** (only displays when the transaction is completed)
2. **Identification code** - alphanumeric code which identifies the transaction. This can be generated automatically or entered manually during the creation procedure.
3. **Status** - as follows:
 -  **Scheduled** - the transaction is waiting to be executed.
 -  **In progress** - the GPV is dispensing the fluid and the transaction is being executed.
 -  **Completed** - the transaction has been completed.
 -  **Partial** - the transaction has been divided into multiple steps and is waiting to be executed.
 -  **Waiting for Top-Up** - all the preset amount of fluid has been dispensed and the GPV is waiting for the command to start dispensing the top-up. This switches to 'Completed' when it times out.
4. **Fluid** - the fluid selected for the transaction.
5. **Operator** - which operator has created or completed the transaction (depending on the transaction's status).
6. **GPV and area** - where the fluid is to be dispensed.
7. **Preset quantity** - the maximum amount of fluid that can be dispensed for the single transaction.
8. **Top-Up quantity** (only displays when the transaction is completed) - the amount of fluid dispensed for the top-up.

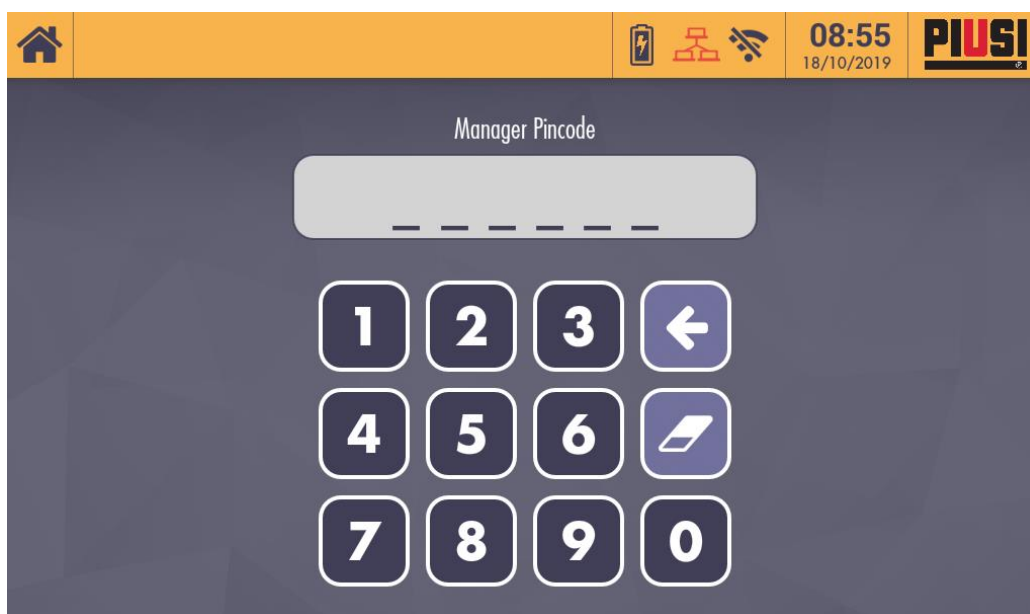
9. **Dispensed quantity** (only displays when the transaction is completed) - the amount of fluid actually dispensed.
10. There is also some **supplementary information** - hold down on the transaction to open a window which displays this information.
11. **Number of partial transactions** - the number of steps into which the dispensation has been divided.
12. **Duration of dispensation** - the time (hh:mm:ss) between the GPV's valve opening and closing.

Click on a transaction to open a panel with the following buttons:

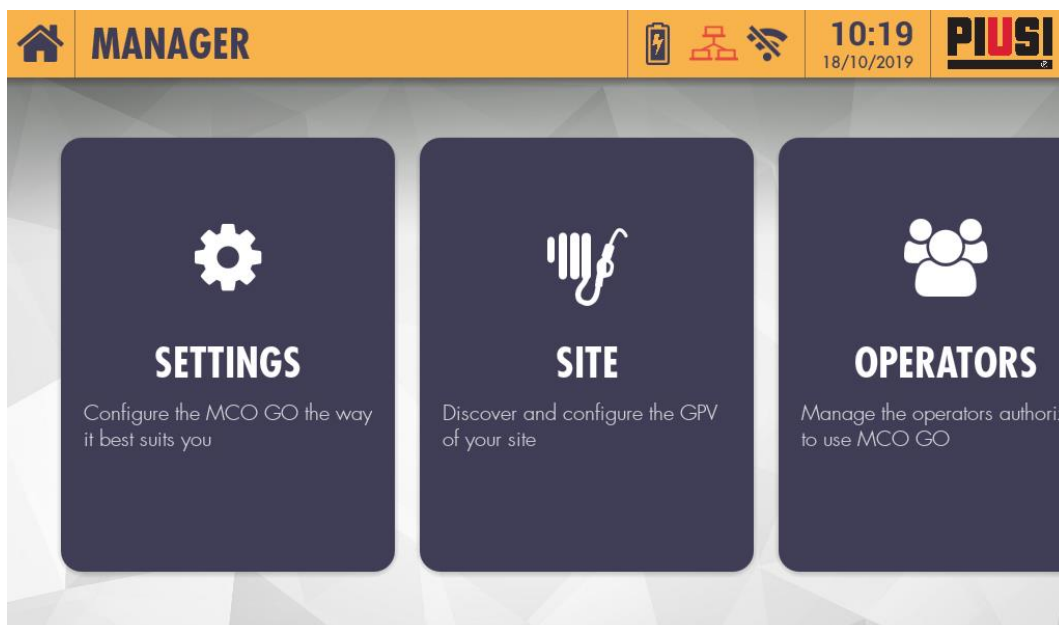
1.  **Start dispensation** - you can only start transactions which are scheduled, partial or waiting for top-up.
2.  **Edit transaction data** - this takes you to the section described in Chapter 5.
3.  **Cancel transaction** - you can only cancel transactions whose status is "scheduled".
4.  **Complete transaction** - you can set the status of a transaction to "completed" by manually entering the dispensed amount (this can only be done for transactions which are partial or in progress).
5.  **Re-print transaction ticket** (only if printer management is enabled, see Chapter 4.1.1) - you can print out the ticket for a completed transaction.
6.  **Partial transaction list** - opens a window which lists all partial dispensations run for the transaction in question.
7.  **GPV meter** - you can display how much fluid is being dispensed by the GPV for a transaction in progress.

4. MANAGER MENU

To enter the Manager area, click on **MANAGER** in the filter panel of the main page, then use the numerical keypad to enter the manager's pincode (the default is 123456, but this can be changed in the 'system settings' section, see Chapter 4.1.1).



If the code is correct, a special site manager's window displays, which allows you to administer every aspect of the system.



4.1 SETTINGS



In the settings section, which can be reached by clicking on the menu item shown in the figure, you can change the settings of your system, register the control unit on the MCO GO CLOUD and download software updates.

4.1.1 SYSTEM SETTINGS

The system settings are divided according to application:

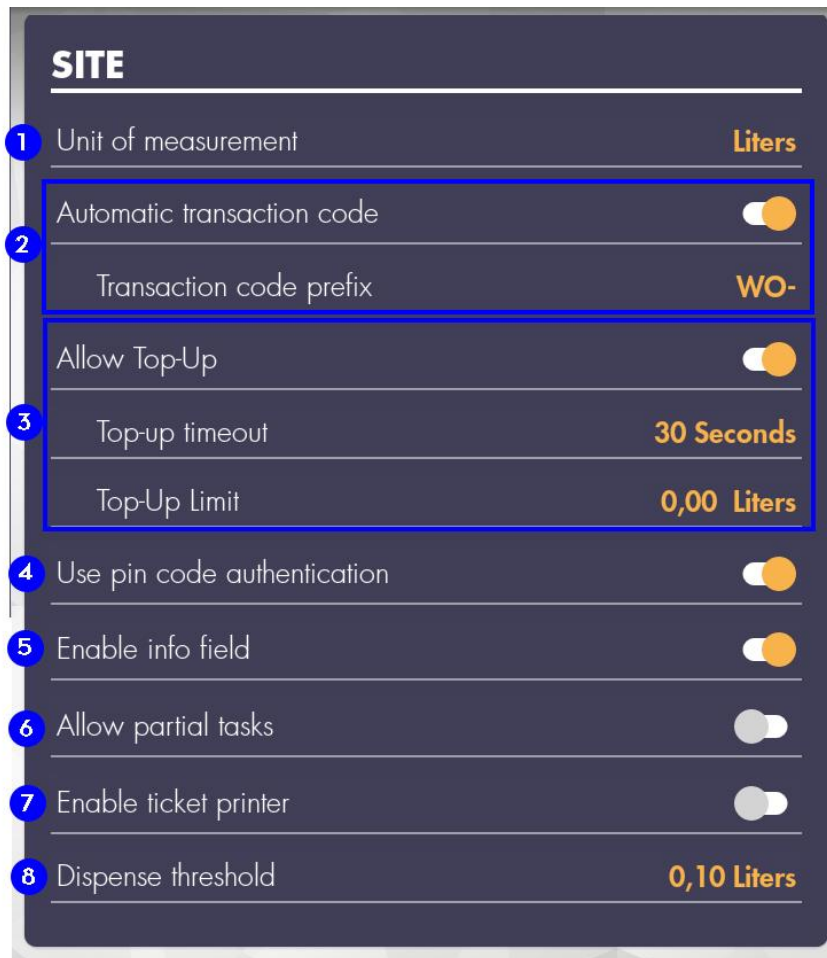
- GENERAL SETTINGS



In detail:

1. **Language** - note that the application reboots when you change the language to apply the new setting.
2. **Set time**
3. **Set date**
4. **Select time zone**
5. **Date format**
6. **Hour format**
7. **Decimal separator**
8. **Wi-Fi configuration** - If you want to synchronise the data in the cloud or download updates to the software, you must specify your internet access point (see Chapter 4.1.2).

- SITE SETTINGS

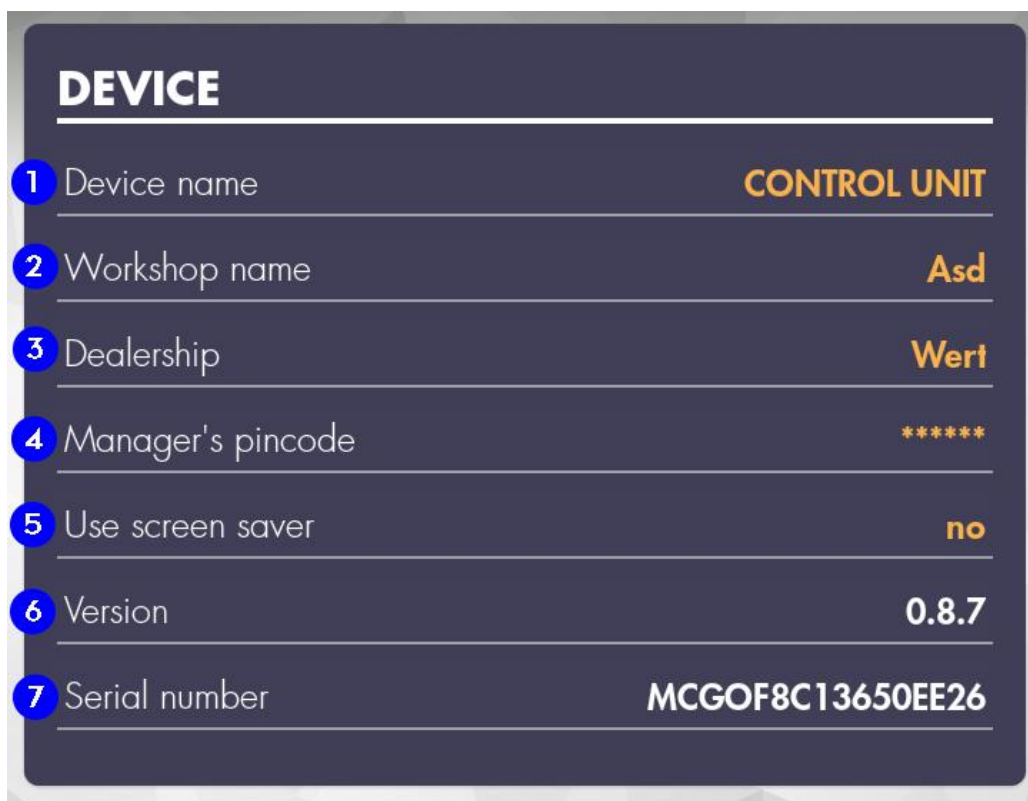


In detail:

1. **Unit of measurement**
2. **Transaction code type** - you can choose whether to allow the system to generate an automatic progressive code for each transaction or enter a new code yourself for each new transaction.
3. **Allow Top-Up** - when enabled, allows a top-up to start at the end of a completed transaction. Specify the timeout within which the top-up can be made and the limit (in litres) for the top-up itself.
4. **Use pincode authentication** - you can disable pincode authentication, in which case the operator no longer needs to authenticate himself to execute a transaction.
5. **Enable info field** - this option allows you to enter free text supplementary information relating to the transaction.
6. **Enable partial tasks** - this allows you to execute a transaction in multiple parts until the preset is reached.

7. **Enable ticket printer** - If the printer has been acquired and hooked up, this option enables automatic ticket printout on completion of each transaction.
8. **Dispense threshold** - You can set a dispensing threshold below which the transaction will not be considered to be completed.

- **DEVICE SETTINGS**



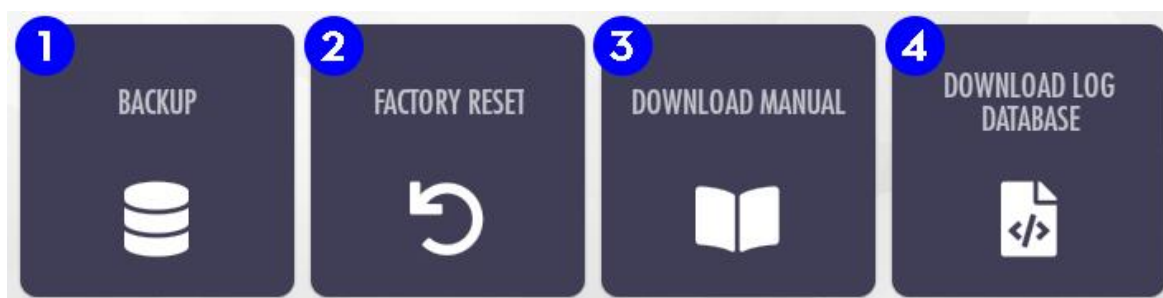
DEVICE	
1 Device name	CONTROL UNIT
2 Workshop name	Asd
3 Dealership	Wert
4 Manager's pincode	*****
5 Use screen saver	no
6 Version	0.8.7
7 Serial number	MCGOF8C13650EE26

In detail:

1. **Device name** - name chosen by the user to identify the control unit when its data are uploaded into the cloud.
2. **Workshop name** - unique workshop identifier, required to enable the system to locate the control unit data in the cloud. It can be modified in two ways:
 - **Change workshop** - this should only be done when the control unit is moved to a new workshop. This enables the system to track fluid transactions in the various workshops and also eliminates all the GPVs from the current site.
 - **Change workshop name** - this can be done to correct the workshop's name. In this case the system does not modify the transactions.
3. **Dealership** - the brand of vehicles the workshop works on.
4. **Manager's pincode** - 6 digit numerical code which accesses the site manager's reserved area.

5. **Use screen saver** - you can load an image for use as a screen saver (generally the workshop logo). The screen saver displays when the main page is active and no one is using the device.
6. **Version**
7. **Serial number** - unique code used to register the product with the Piusi portal.

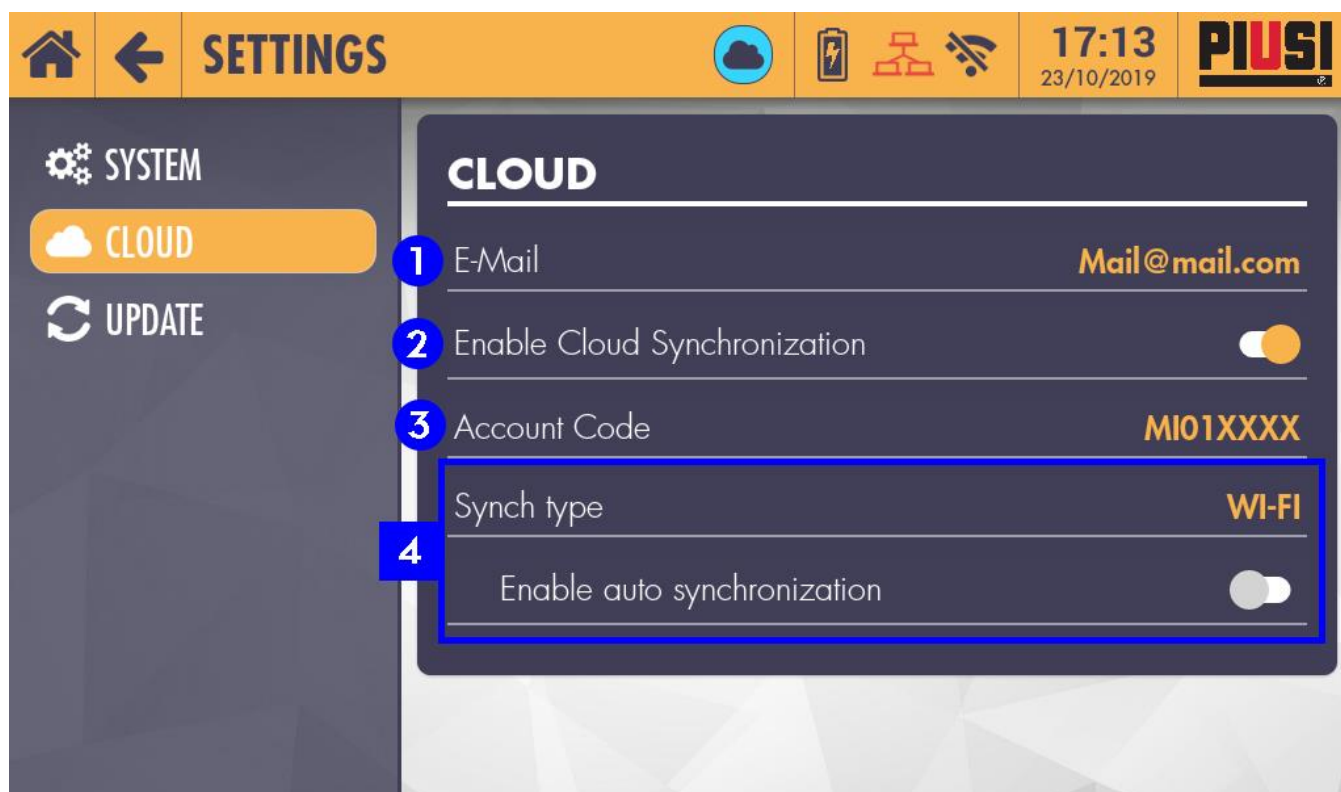
- AUXILIARY FUNCTIONS



In detail:

1. **Backup** - backs up the control unit's database. To restore a backup, proceed as indicated in Chapter 4.4.
A backup can also be restored to a different control unit.
A backup can be used to import preferences and operators.
2. **Factory reset** - caution: this option deletes all data on the control unit and restores the initial factory configuration.
3. **Download manual** - you can download the following manual as a pdf to a USB key. The manual will be in the language indicated in the system settings.
4. **Download log database** - the logs generated by the software can be downloaded to a USB key for use by technical service in troubleshooting faults.

4.1.2 CLOUD






In detail:

1. **E-mail** - the email address of the user who registered the control unit with the Piusi portal. This field is required to allow the data to be uploaded to the cloud and for periodically checking for updates via Wi-Fi (see Chapter 4.1.3).
2. **Enable cloud synchronisation** - enable this option if you want to use the MCO GO CLOUD service.
3. **Account code** - enter the MCO GO CLOUD account code emailed to the portal user when he purchased the cloud service subscription.
4. **Synch type** - select the type of synchronisation you want to use to upload data to the cloud. Modes available:
 - **USB key** (see Chapter 4.4) - the data are saved on a USB key and then manually uploaded to the cloud using the MCO GO web app (refer to the web app manual for details).
 - **WI-FI** (see Chapter 4.5) - the data are synchronised with the cloud via internet: the control unit connects to the specified access point (see Chapter 4.1.2) and synchronises with the cloud automatically (if this option is selected) or manually.

4.1.3 UPDATES

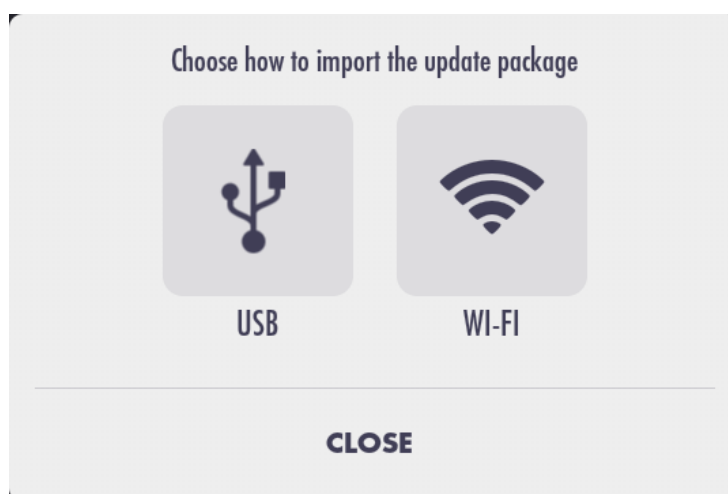



In detail:

- A. **Control unit** - indicates which updates are available for the control unit. Click on a line to read the update release notes. Click on  to start installing all updates available for the control unit.
- B. **GPV** - indicates which updates are available for the system's GPVs. Click on the line marked  to read the update release notes, and click on  in the same window to start installing the update.



Check for updates – you can download the latest updates in two ways:



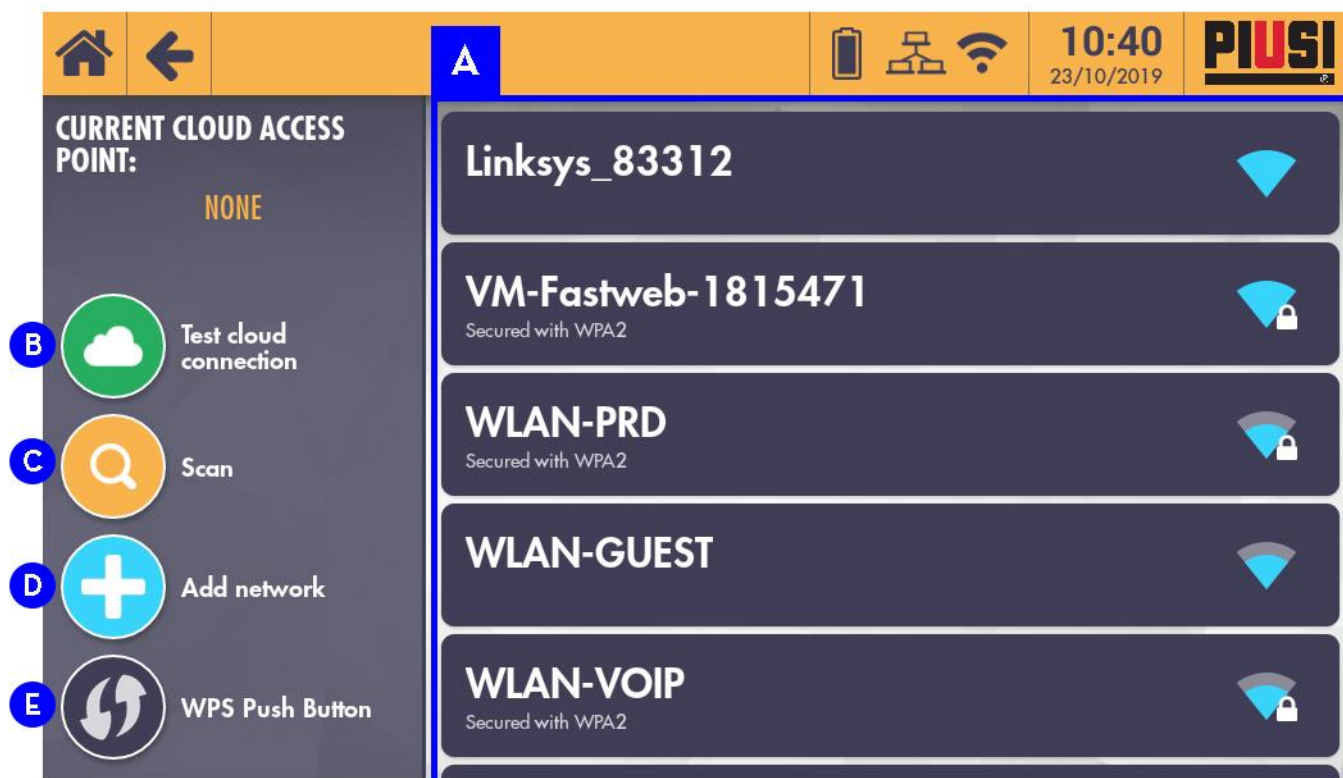
- **USB** – Download the most recent package of updates from the Piusi portal or the MCO GO web app, load the package onto a USB key, insert the key into the control unit and click on  to load the update into the device.
- **Wi-Fi** – The control unit automatically connects to the specified access point (see Chapter 4.1.2) and downloads the most recent package of updates from the Piusi server over the internet.

N.B.

- Do not turn the control unit off or disconnect it from power during the update process.
- Do not turn the GPV off or disconnect it from power during the update process.
- To download updates automatically via Wi-Fi you must register the control unit with the Piusi portal.

4.1.4 WI-FI SETTINGS

In this section you can indicate which access point the software should use to synchronise the data with the cloud via Wi-Fi or to download updates.



In detail

- A. **List of local Wi-Fi access points.** Click on an access point to configure the connection and connect.
- B. **Test cloud connection** with the MCO GO cloud - once you have established the connection with the access point, click on this button to test whether the MCO GO cloud services are available.
- C. **Scan** networks - scans all available access points.
- D. **Add network** if its access point is not visible - you can manually configure the connection to an access point which does not transmit its SSID.
- E. Button for connecting automatically to a network using the **WPS** protocol (wi-fi protected setup).

N.B.

- The selected access point must allow the control unit to navigate the internet and the following URL must be available: <https://apimcogo.piusi.com>
- You cannot manually configure a proxy when connecting to the selected network.

4.2 SITE



Click on the menu option shown in the figure to access the site section and detect and configure the site's GPVs.



In detail:

- A. **List of GPVs** - a list of GPVs detected on the system.
- B. **Initiate the discovery process** - this option starts automatic GPV detection. This should only be done on first installation or when a new GPV is added to the system.
- C. **Change display type** - displays the GPVs grouped by work area.

N.B.

- Each MCO GO control unit can handle up to 6 GPVs.

4.2.1 CHANGING THE GPV SETTINGS



In detail:

1. **Status** - the most recent detected status (this is not a real time value):
 - **Online** - the GPV is working properly.
 - **Offline** - the GPV is not available, this may be due to the following:
 - i. The GPV is disconnected from the switch.
 - ii. The GPV is switched off.
 - iii. The control unit is disconnected from the switch.
 - **Dispensing** - a fluid transaction is in progress and the GPV is dispensing fluid.
 - **Disabled** - the GPV is not enabled to dispense fluid and cannot be used.
 - **Calibrating** - the GPV is being calibrated.
 - **Pairing** with an 'easy view' gun - the GOV is looking for an easy view gun to connect to.
 - **Not compatible** - the GPV's software version is not compatible with the control unit's software version, you must update the GPV before you can use it (see Chapter 4.1.3)
2. **GPV number** - 1 - 99, user defined.
3. **IP address** - assigned automatically during discovery, cannot be modified.
4. **GPV name** - alphanumeric name, user defined.
5. **GPV serial number** - unique GPV serial number, cannot be modified.
6. **GPV not configured** - to use a GPV to dispense fluid, you must first configure the following settings: fluid name, tank name and list of areas/bays the GPV is to be used in.
7. **GPV configured** - the settings required to use the GPV have been configured, in order: fluid, tank, area.

Click on the GPV to display the edit panel:

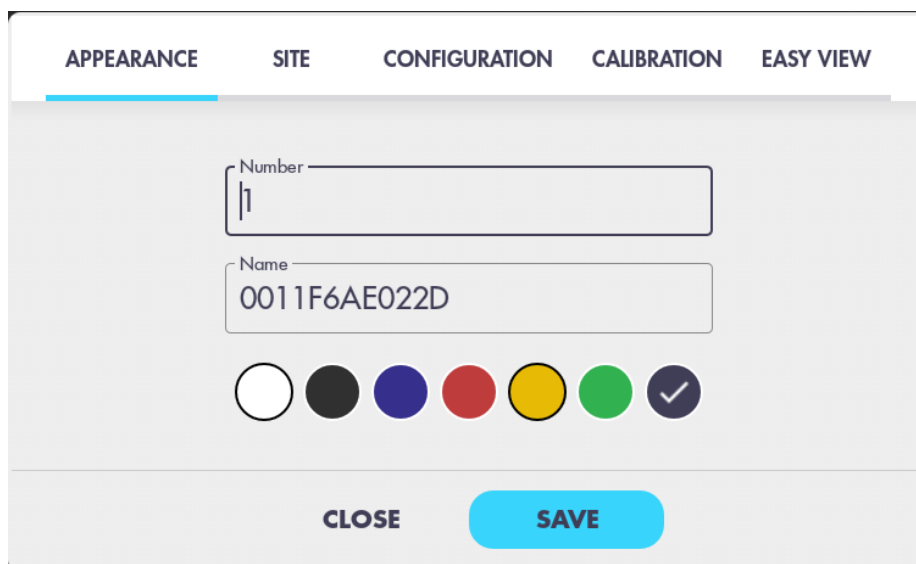


In the panel:

1. **Edit settings** - Displays a window with several subsections:

a. **APPEARANCE:**

here you can set the GPV's number and name and the colour used to display it.



b. SITE:

here you can make the obligatory settings: name of fluid, tank and areas served by the GPV.




N.B.

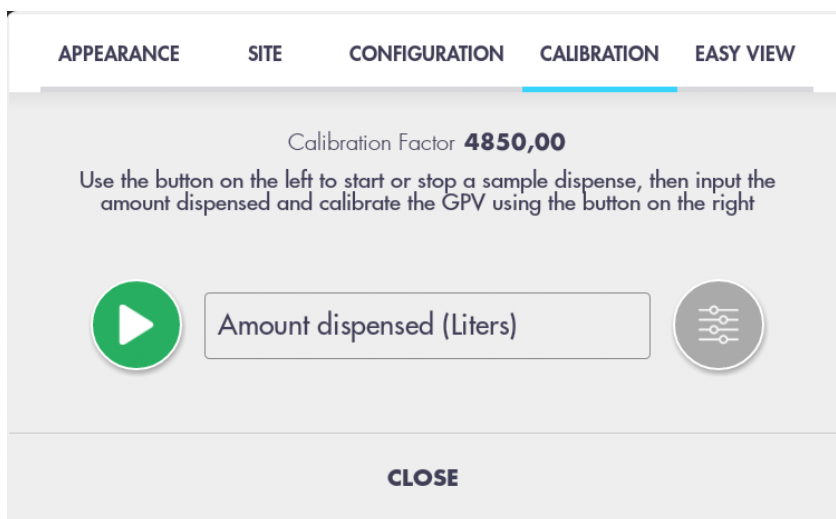
- The names used in the fluid, tank and area fields are unique identifiers and will be used by the MCO GO web app to group and filter the transactions handled by the GPVs.

c. CONFIGURATION:

here you can set all dispensing parameters.

d. CALIBRATION:

To start the procedure, click on , dispense the desired amount, stop the calibration by clicking on , enter the amount dispensed and click  to save the configuration.



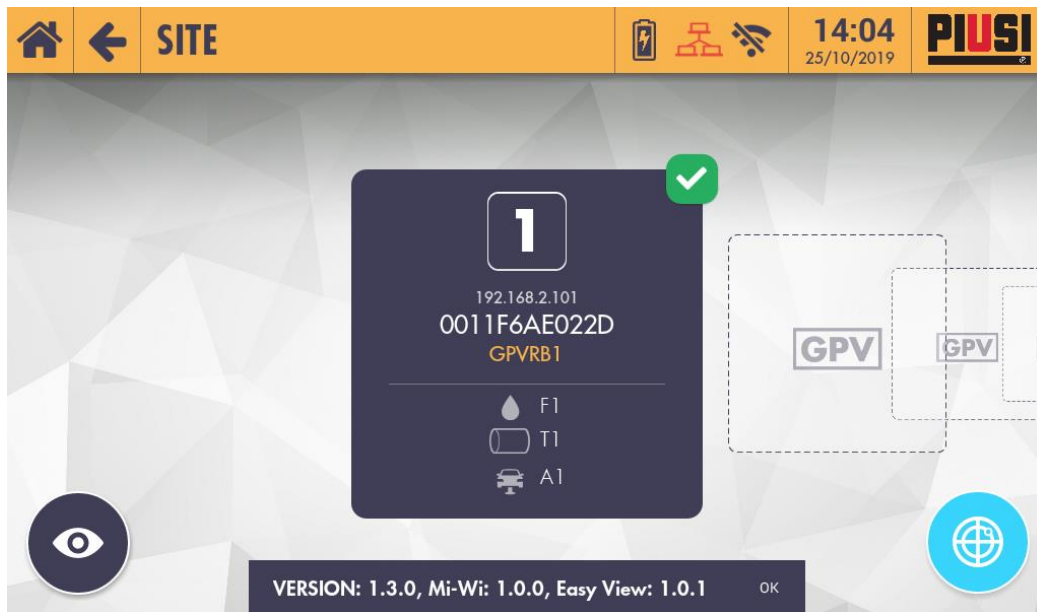
e. EASY VIEW:

here you can pair and unpair the Easy View gun with a GPV.



2. **Connection test** - this makes the GPV's leds flash continuously and can be used to check that the control unit and gpv are properly connected.
3. **Enable/disable GPV** - A GPV can be disabled for dispensing.
4. **Cancel GPV from system** - if you want to replace a GPV or it has been detected incorrectly, you can remove it from the system.

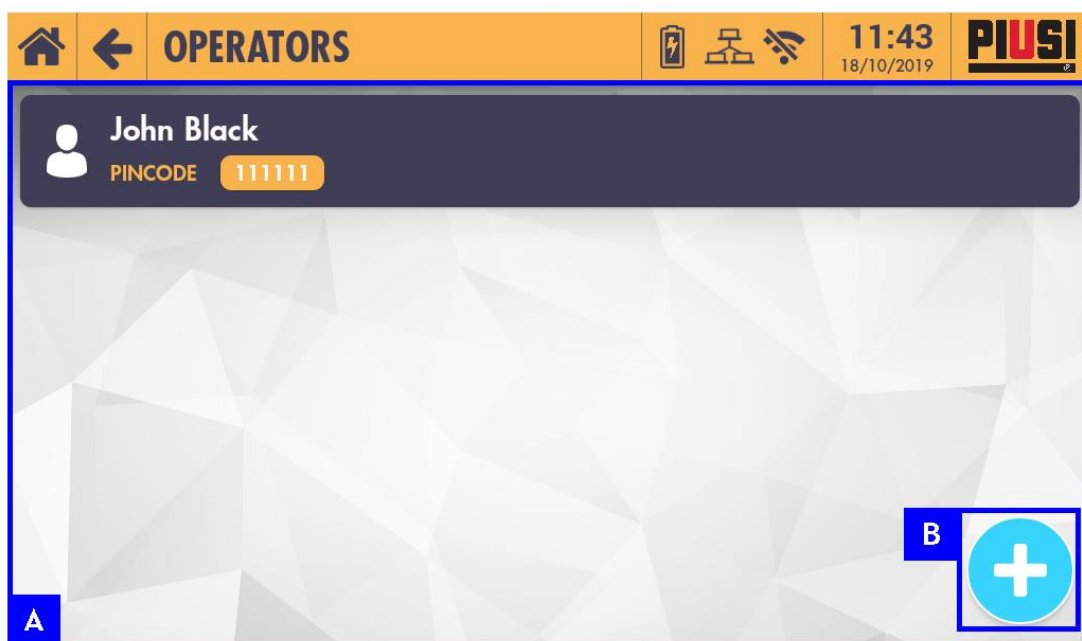
Hold down the GPV to display information about the versions of the applications installed on it:



4.3 OPERATORS



Click on the menu option shown in the figure to access the operators section and set up a register of mechanics authorised to use the system to dispense fluids.



In detail:

- A. List of operators
- B. Create new operator button

N.B.

- There is no limit to the number of operators you can register.

4.3.1 CREATING AND MODIFYING AN OPERATOR

Click on  to create a new operator. The following window displays:

In detail:

1. Given Name
2. Family Name
3. 6 digit numerical pincode.

In the list, click on an operator to open the edit window:



1. **Edit operators register** - opens the window in which you can edit the operator's first name, last name and pincode.
2. **Delete operator** - the operator is definitively deleted from the system
3. **Disable operator** - a disabled operator can no longer authenticate himself to use the system.

N.B.

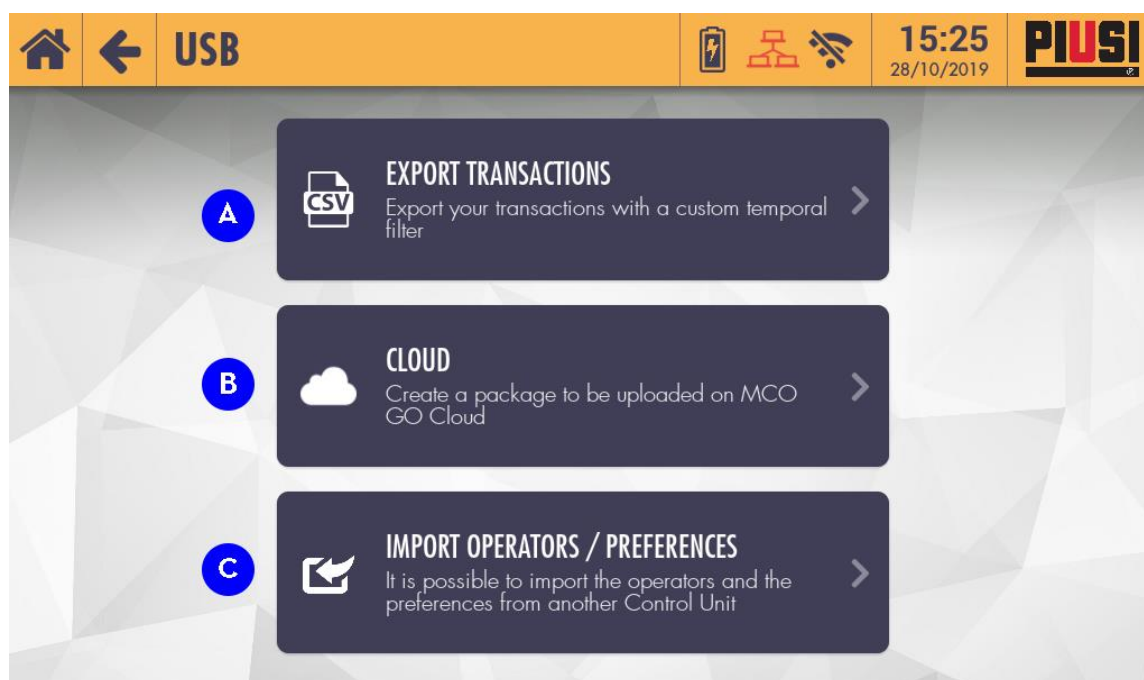
- If pincode authentication is not enabled in the general settings, there is no need to set up a register of operators. In this case, the following message displays:



4.4 USB



In the USB section, accessible with the shown menu option, you can export transactions to a CSV file and import operators and system preferences from a backup made with a different control unit.



In detail:

- A. **Export transactions** - creates a .csv file containing all completed transactions, filtered chronologically, and saves it to the USB key inserted into the control unit.
- B. **Cloud** - creates a package to save to the USB key which can then be imported into the MCO GO web app for synchronisation with your site data on the cloud.
- C. **Import operators / preferences** - imports a backup of a database of operators and preferences. Select whether to import operators, system preferences or both, insert the USB key into the control unit and click on IMPORT to start the procedure.

N.B.

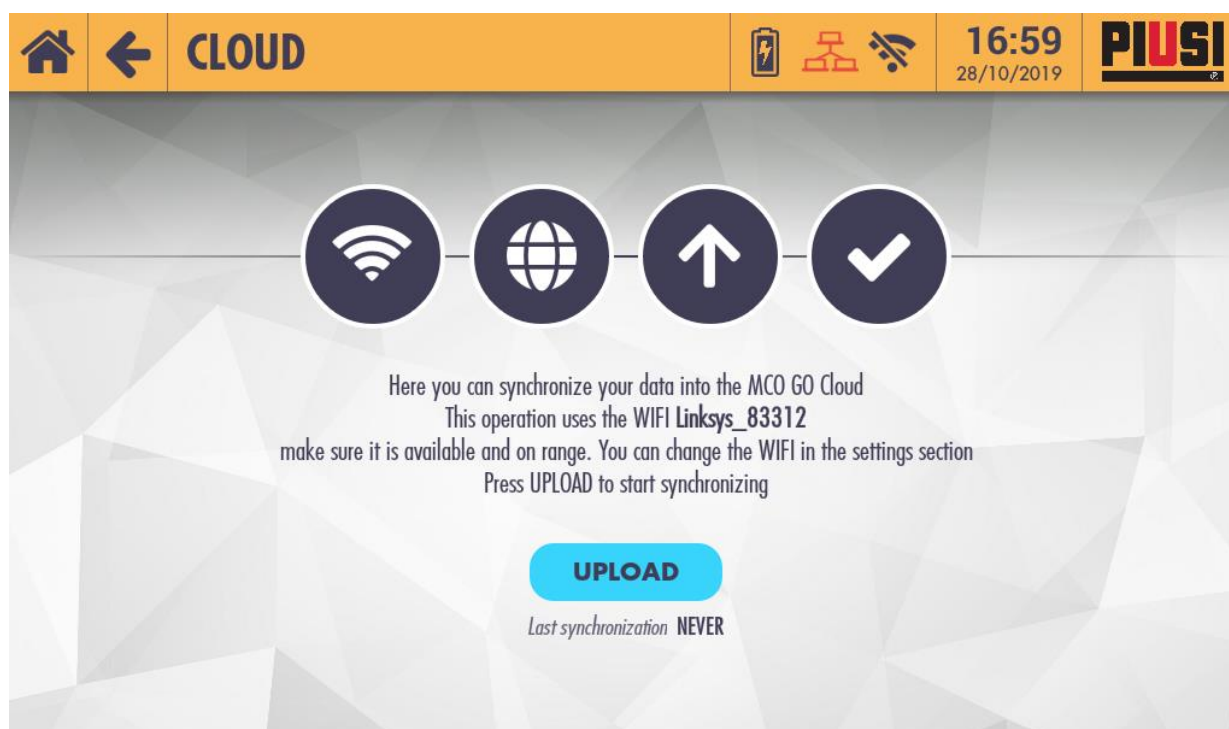
- The control unit is compatible with USB keys formatted with a single FAT32 partition, of maximum size 32Gb.

4.5 WIFI SYNCH



This section, which is accessed via the menu option shown in the figure, allows you to synchronise the data in the cloud using the workshop internet connection.

The section only displays if: you have chosen to synchronise the data with the Wi-Fi connection, you have specified an internet access point, and you have entered a valid account (see Chapter 4.1.2)



Click on **UPLOAD** to start uploading the data to the cloud. You can make this procedure automatic by enabling automatic synchronisation in the **CLOUD** menu in **SYSTEM SETTINGS** (see Chapter 4.1.2).

N.B.

- You can only synchronise the data if there are no active transactions and the GPVs are not dispensing.

5. CREATE A NEW TRANSACTION

To create and execute a new transaction, click on at the bottom right of the software's main page, then enter the operator pincode with the numerical keypad (if pincode authentication has been enabled). If the code is correct the following page displays:



In detail:

- A. **Summary bar** - describes the transaction.
- B. **Configuration menu** for the transaction, in which you must specify:
 - The fluid to dispense.
 - The area to dispense to.
 - The GPV used to dispense.
 - Use the numerical keypad to indicate the maximum amount to dispense (the dispensation preset).
 - (Optional) Enter any supplementary information you wish to associate with the transaction.
- C. **Save button** - Click on this button to save the transaction for execution at a later time.
- D. **Start button** - When you click on this button, the system checks that the settings are valid and then executes the transaction. The fluid, area and GPV data are obligatory.

N.B.

- There is no limit to the number of transactions the control unit can memorise.
- You can start multiple transactions at the same time, so long as they are on different GPVs.
- To execute a transaction without preset (free transaction), enter O (zero) for the amount.

