ACTIVE CLOUD

USER MANUAL

ENGLISH MANUAL

ActiveCloud Manual rev. APRIL 2021

The ActiveCloud system allows fog systems to connect to the internet via RJ45 cable or WiFi in order to monitor the system status or interact remotely.

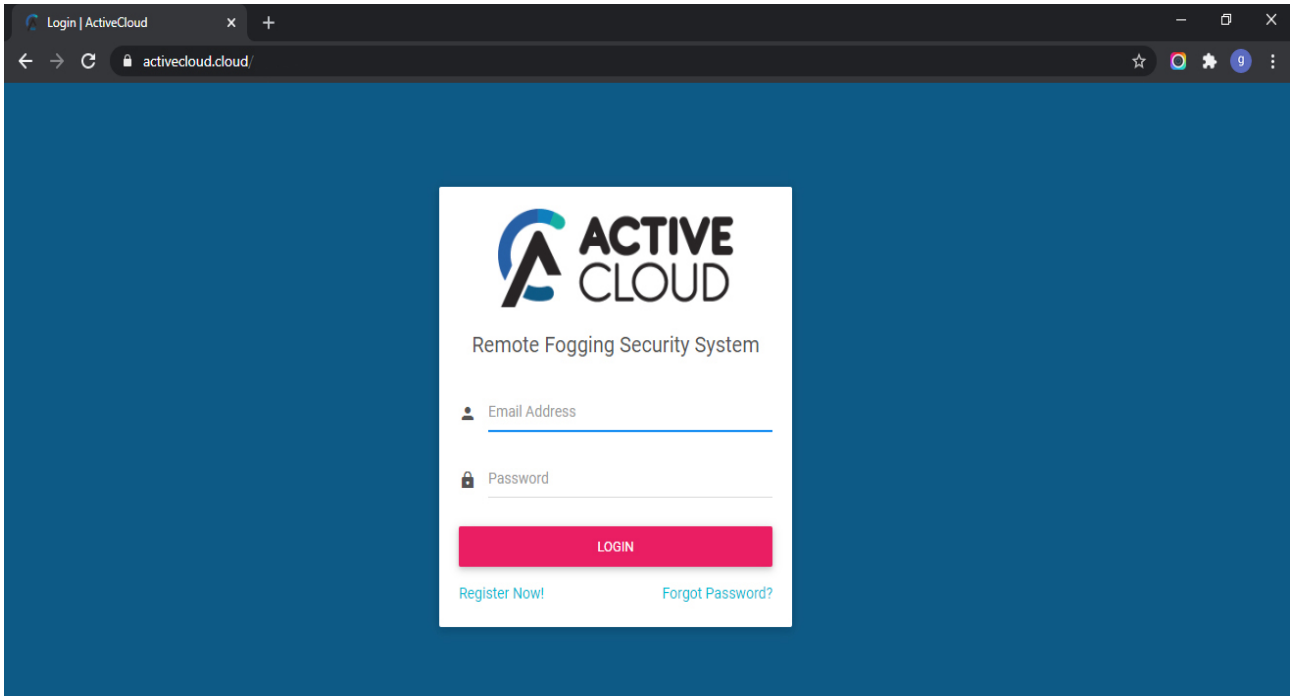
System requirements:

An ActiveCloud card
A fog generator system designed for ActiveCloud
An ADSL router with Internet connection
A remote system connected to the internet for monitoring (PC, Smartphone, Tablet, Smart-TV)

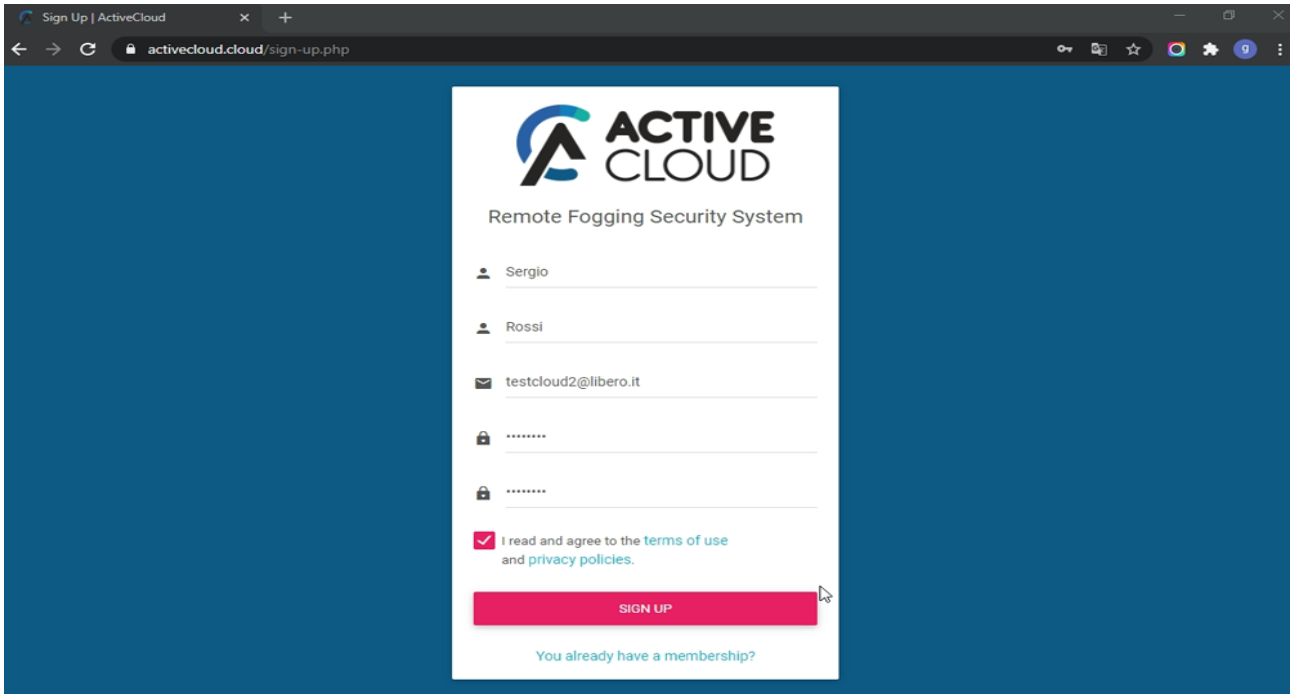
In order to access the ActiveCloud service, all users must be registered on **activecloud.cloud** site, subject to acceptance of the terms of use and the privacy rules that can be consulted on the site itself.

1 ActiveCloud Quick Start Guide

Login to the ActiveCloud at the following address ---> activecloud.cloud

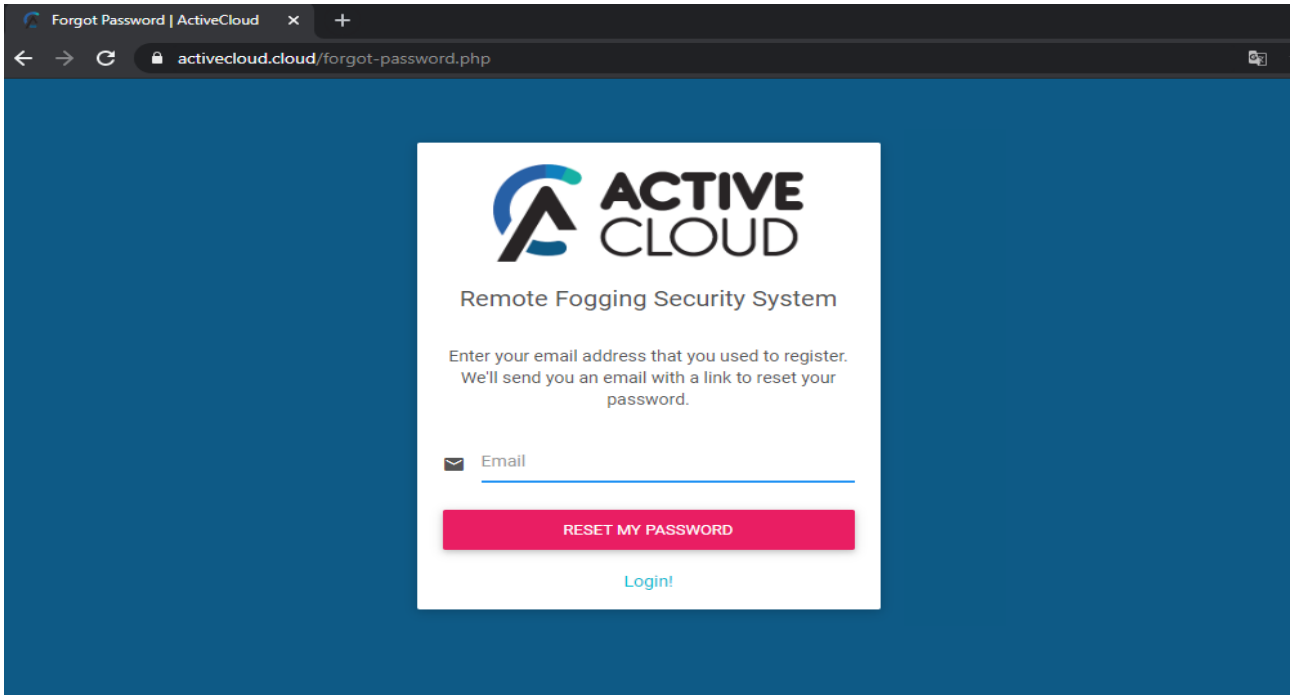


Fill in the required fields (username and password) and click on the “LOGIN” button. If you don’t have an account, register a new account by clicking on the “Register Now!” link.



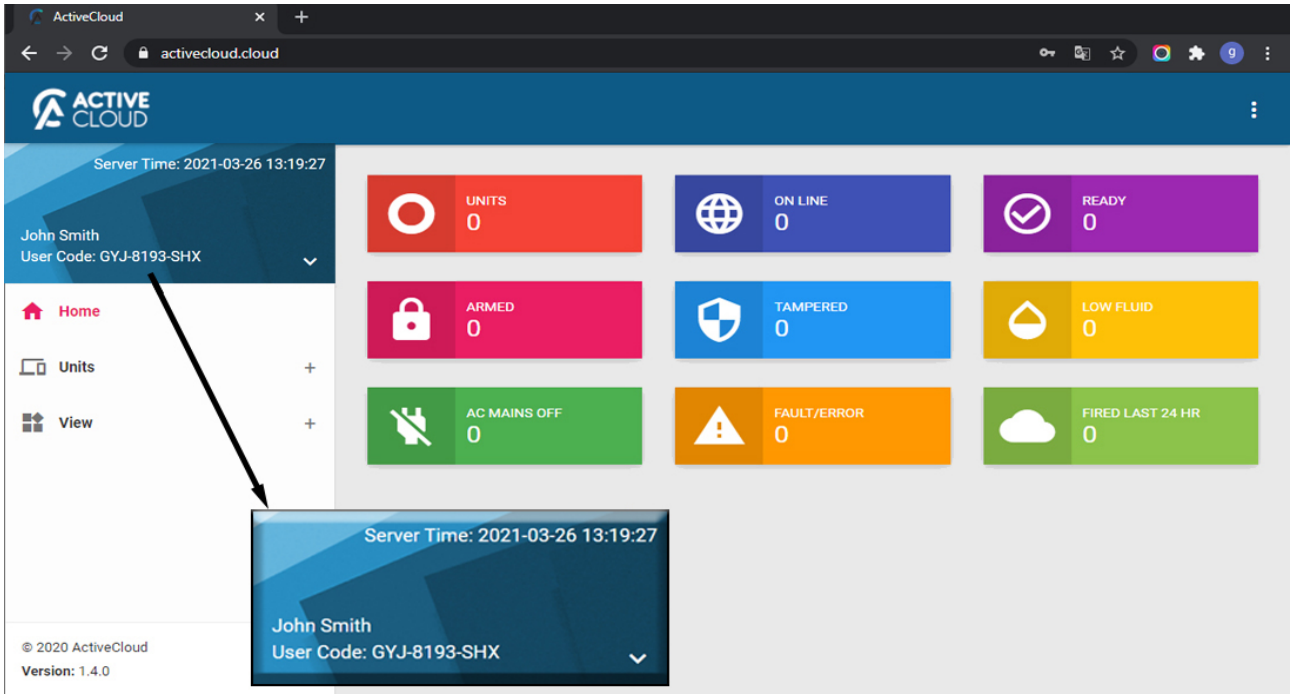
Fill in the required fields (Last Name, First Name, Email Address, Password and Confirm Password) and click on the “SIGN UP” button. You will receive an email from ActiveCloud to activate your account. Follow the instructions, activate the account and login to the Cloud.

If you already have an account and you forgot the password click on the “Forgot Password” link.



Fill in the required field with email address used for registration and click on the “RESET MY PASSWORD” button. You will receive an email from ActiveCloud, follow the instructions, change and confirm your password and login to the Cloud.

When you login to the ActiveCloud you have access to the HOME DASHBOARD.



Left panel shows essential information and the menu. Right panel shows a synthetic view of the status of the user's devices. Click on the vertical dots icon (icon ⋮) on the top-right to view and edit the user profile (icon 👤) or to logout (icon⍈). Click on the down arrow icon to view and edit the user profile (icon 👤) or to logout (icon⍈).

Left panel essential information is:

- ***server time***: UTC server time;
- ***user name***: first and last user names;
- ***user code***: univocal identification code auto generated by the server at registration time, cannot be changed. Take note of the USER CODE, **this is the code you should give to unit owner to be authorized to monitor/operate on the grant unit(s).**

Left panel menu items are:

- ***home***: open the HOME DASHBOARD.
- ***units***: open the UNITS DASHBOARD with a list of the units managed by the user, this tab also give access to add new units.
- ***view***: open the MONITORING DASHBOARD with a list view of the user's unit status.

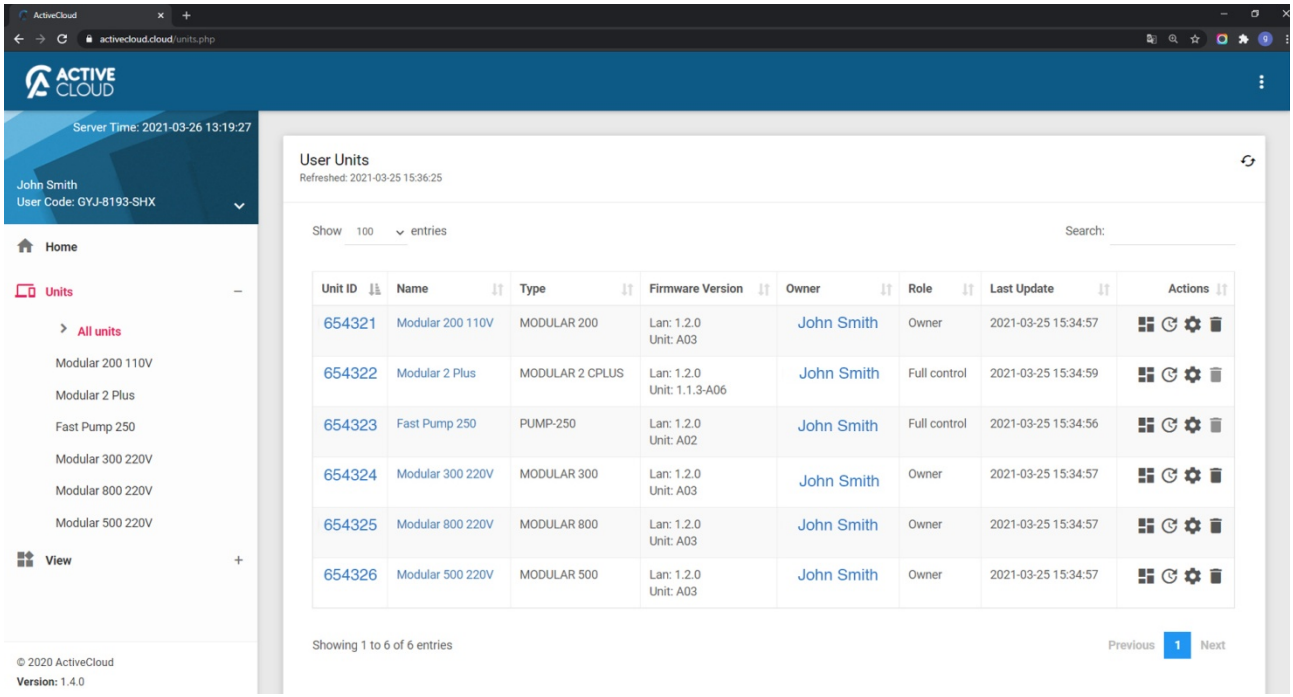
Right panel synthetic view of the status of the devices that user is authorized to monitor/manage:

- ***Units***: total number of user units.
- ***Online***: number of online units (active units connected to the server).
- ***Ready***: number of units currently ready to shoot.
- ***Armed***: number of units currently armed.
- ***Tampered***: number of units currently tampered.
- ***Low Fluid***: number of units with empty tank, not enough fluid to shoot or just need to be recharged.
- ***AC mains off:*** number of units powered by battery and not by AC (110v/230v) mains socket.
- ***Fault/error***: number of units currently in fault or error status.
- ***Fired last 24 hr***: number of units that have fired in the past 24 hours.

Click on the icons to open filtered MONITORING DASHBOARDs with the list of units in that status (i.e. click on ***Units*** to open the list of all units, or click on ***Ready*** to view just the list of ready units, etc.).

1.1 UNITS DASHBOARD

Open the UNITS DASHBOARD by clicking on the ***Units*** item in the left panel menu. The dashboard shows a table of the units managed by the user, i.e. the units owned by the user plus the units owned by other users and for which management has been granted.



For each unit the table shows:

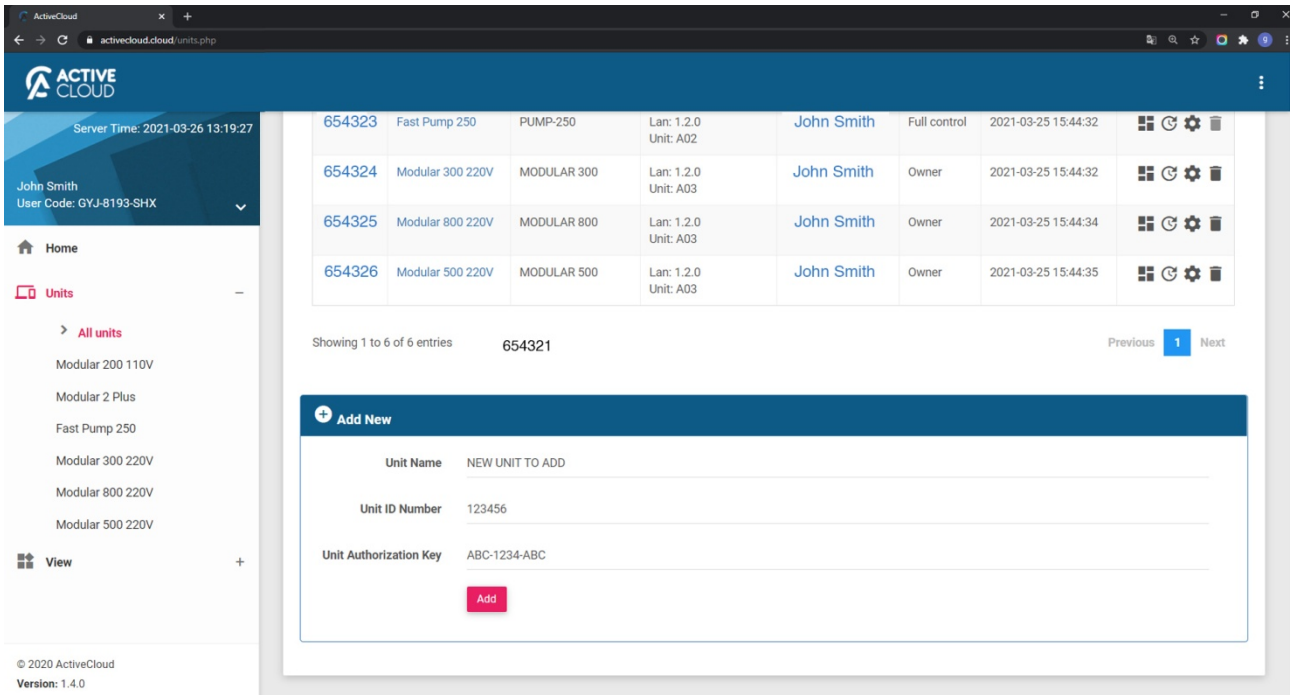
- ***Unit id***: the unit serial number.
- ***Name***: the unit name as defined by the user.
- ***Type***: the unit type.
- ***Firmware Version:*** the unit firmware revision.
- ***Owner***: the name of the unit owner.
- ***Role***: the user role for the unit (i.e. Ownership, Full Control, Maintenance and Monitoring).
- ***Last Update***: last time the unit was on line (connection status).

For each unit four actions, represented by four icons, are possible:

- ***Dashboard (icon)***: open the UNIT DASHBOARD.
- ***Refresh (icon)***: refresh the current unit status.
- ***Configuration (icon)***: open the UNIT CONFIGURATION DASHBOARD.
- ***Remove (icon)***: remove the unit from the Cloud for the owned unit, remove the unit from the managed units for the not owned units.

1.1.1 Add a new unit

Connect the unit to the internet via router or switch, turn it on and the ActiveCloud board will automatically be directed to the cloud services. ActiveCloud is default configured as DHCP, eventually configure it with the ***ActiveCloud LAN Configuration*** software for non standard configurations (eg. Fix IP). Once the unit is properly configured and connected to the Internet click the add new icon to add a new unit to the ActiveCloud.



Enter a name for the unit, the serial number and the authorization key provided with the unit and click on the ADD button. If the installation is successful the unit will be added to the table above.

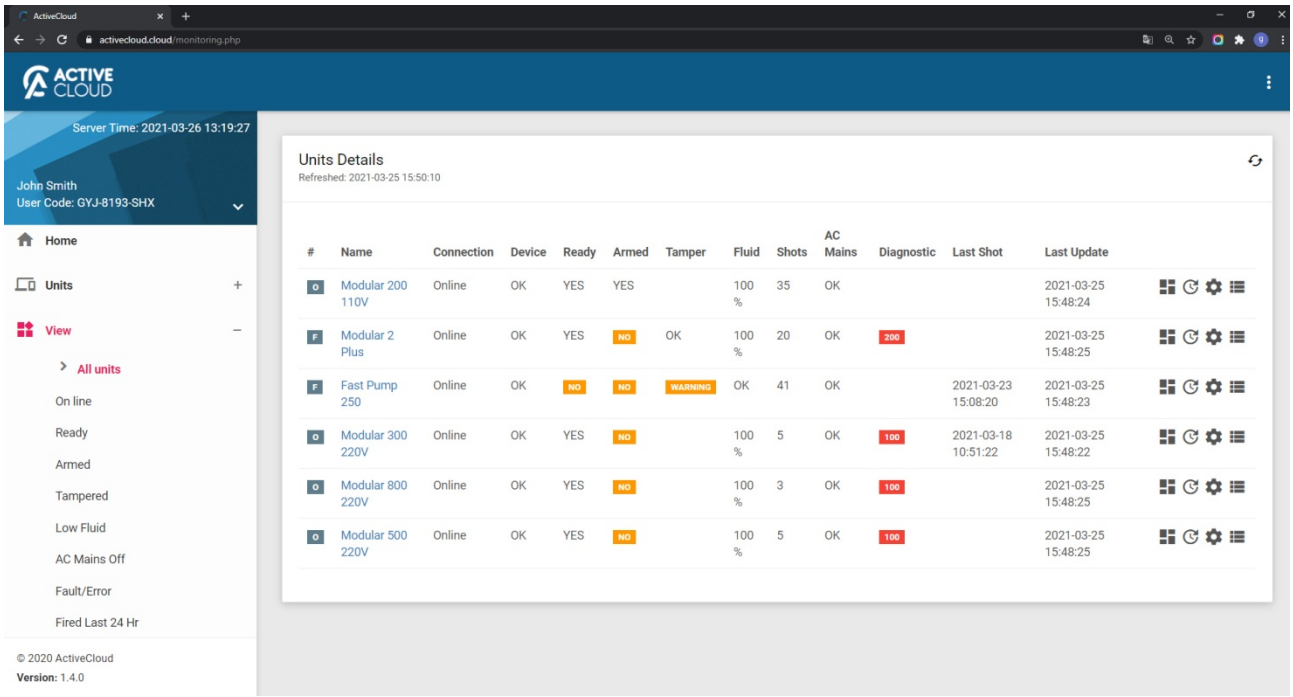
1.2 MONITORING DASHBOARD

Open the MONITORING DASHBOARD by clicking on the ***View*** item in the left panel menu. The dashboard shows a table of the units managed by the user and for each unit its current status.

Click on the sub items to filter the units in the table: i.e. click on the ***Ready*** sub item to list ready units, or on the ***Armed*** sub item to list armed units, etc. Click on the ***All units*** sub item to list all units.

For each unit the table shows:

- ***Role***: the role the user has for that unit, i.e. Ownership (O), Full control (F), Maintenance (M), Monitoring (V).
- ***Name***: the unit name as entered by the user.
- ***Connection***: Internet connection status. Online/Offline: ActiveCloud board active and connected or offline. On The ActiveCloud board there is a RED led that refer board status (On :connected to router, Off: disconnected)
- ***Device***: Fog device status and ActiveCloud status. OK/NO: device connected/unconnected.
- ***Ready***: device status. YES/NO: device ready to shot (depends on boiler temperature , fluid quantity, armed status) or not.
- ***Armed***: device status. YES/NO: device armed or not armed.
- ***Tamper***: device status. OK/TAMPERED: device OK or tampered (fluid door/cover open).
- ***Fluid***: device fluid tank status. OK/LOW FLUID: tank full or tank empty or not enough fluid.
- ***Shots***: total number of shots done by the unit. Test shoots and failed shoots are reported in the value.
- ***AC Mains***: power status. OK/NO: powered by AC mains or powered by back up battery.
- ***Diagnostic***: diagnostic status. Error n./Fault n. in case of error or fault of the unit. More details clicking on diagnostic widget.
- ***Last shoot***: recorded time of the last shot.
- ***Last check***: last time the unit was on line (connection status).



For each unit four actions, represented by four icons, are possible:

- ***Dashboard (icon)***: open the UNIT DASHBOARD.
- ***Refresh (icon)***: refresh the current unit status.
- ***Configuration (icon)***: open the UNIT CONFIGURATION DASHBOARD.
- ***Log (icon)***: open the UNIT LOG DASHBOARD.

1.3 UNIT DASHBOARD

Open the UNIT DASHBOARD by clicking on the ***Dashboard*** icon in the UNIT or MONITORING DASHBOARDS. The dashboard shows widgets with unit info, unit current status and unit actions.

Info widgets:

- ***Unit ID***: unit ID number.
- ***Name***: the unit name as entered by the user.
- ***Type***: unit Model, this field is automatically filled by the system.
- ***Firmware Version***: ActiveCloud firmware revision /protocol communication revision. this field is automatically filled by the system.
- ***Owner***: unit owner name.
- ***Rights***: user role for the unit (Owner, Full control, Maintenance, View).

Status widgets: see MONITORING DASHBOARD for the details.

ACTION WIDGET: the Action widget are proposed **DEPENDING** on the unit's role authorizations.

OWNER (O) : ARM/DISARM – TANK RESET – SHOOT! – TEST SHOOT

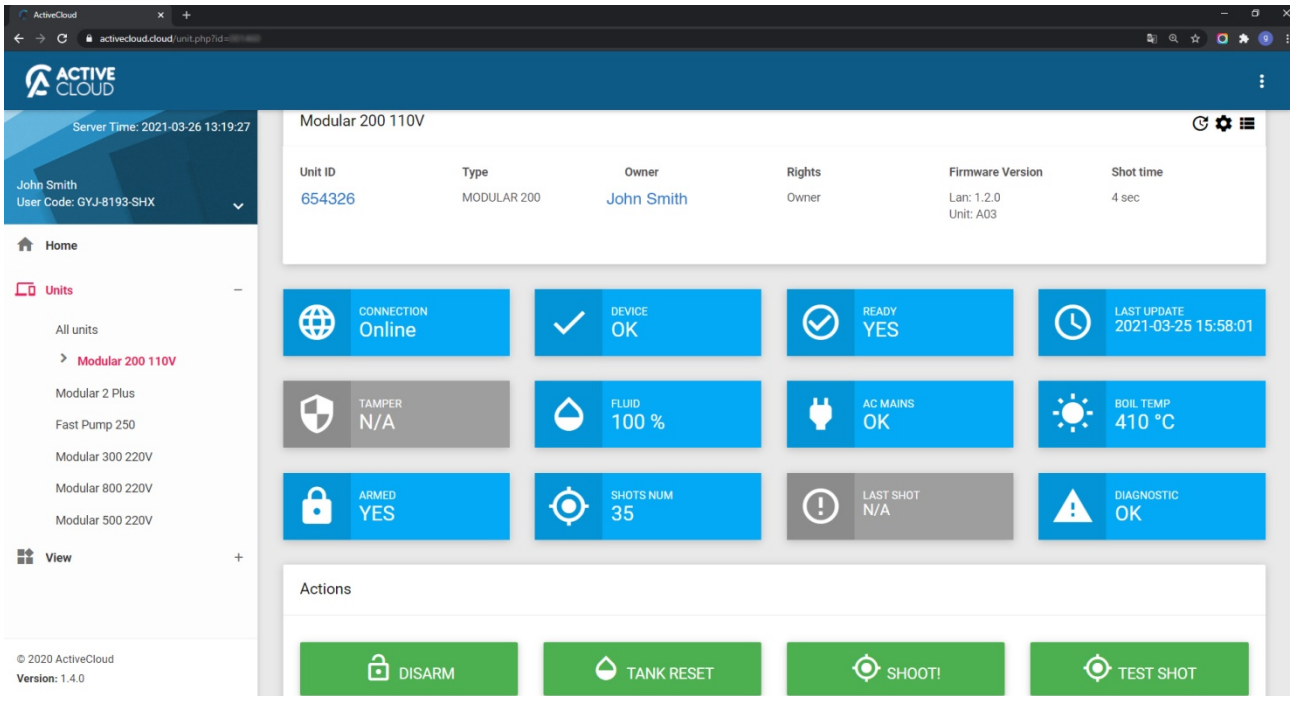
FULL CONTROL (F) : ARM/DISARM – TANK RESET – SHOOT! – TEST SHOOT

MAINTENANCE (M) : TANK RESET – TEST SHOOT

VIEW (V) : no widgets displayed, only monitoring rights.

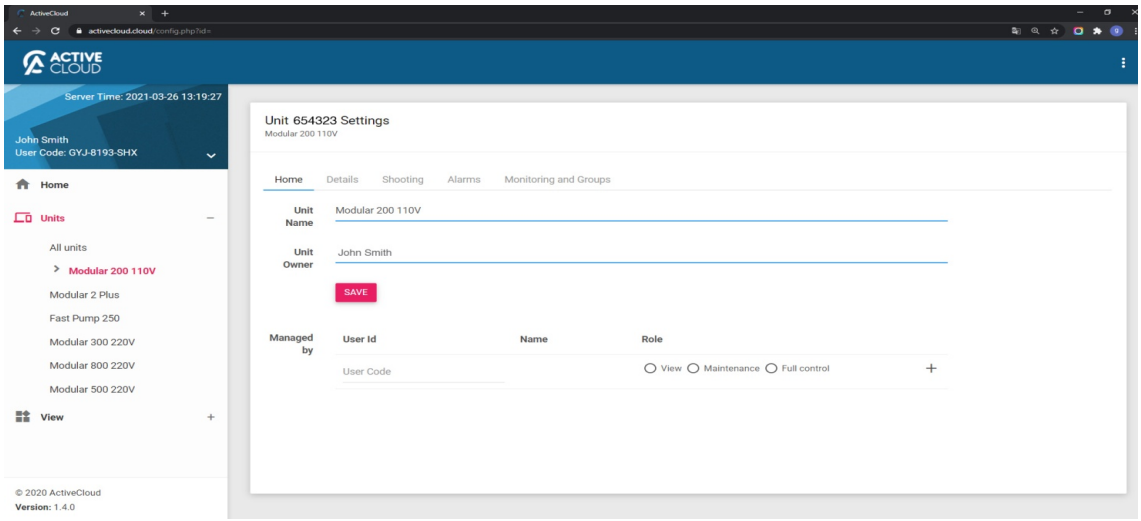
For any command issued using widgets a confirmation pop-up is always required.

- ***Arm***: arm/disarm the unit.
- ***Tank Reset***: reset the tank status to full after fluid tank replacement.
- ***Shoot***: request the unit to perform a shot for the selected time.
- ***Shoot test***: request the unit to perform a test shot (Fixed type, usually 4 seconds, depending on model).



1.4 UNIT CONFIGURATION DASHBOARD

Open the UNIT CONFIGURATION DASHBOARD by clicking on the ***Configuration*** icon in the UNIT or MONITORING DASHBOARDS. The dashboard shows four panels for configuring the unit: Home, Details, Shooting and Alarm.



In the **Home** panel you are allowed to:

- Change the unit name.
- Change the unit ownership: this action is granted only to the unit owner (O) and allows transferring the ownership to another user (user-code of the user is needed).
- Grant access to manage the unit. This action is granted only to the roles OWNERSHIP and FULL CONTROL and allows assigning the unit to other user. User-code of the user and role (FULL CONTROL; MAINTENANCE and MONITORING) have to be specified.

Click the SAVE button to save the current settings.

In the **Details** panel you are allowed to:

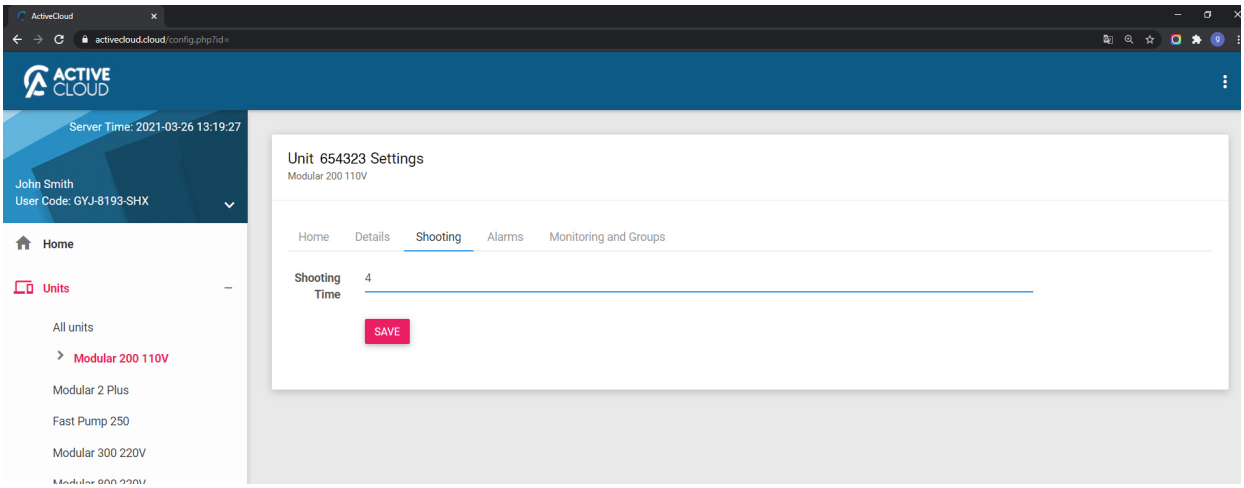
- Add/Change the installation Address and/or all details needed to better identify and localize the unit.
- Add/Change the contact person name and position (usually security responsible on site).
- Add/Change telephone number, mobile phone number or any other info helpful to quick contact.
- Add/Change other useful details (eg. refill model, refill location, refill supplier, last maintenance date)

Click the SAVE button to save the current settings.

In the **Shooting** panel you are allowed to:

- Change the shooting time.

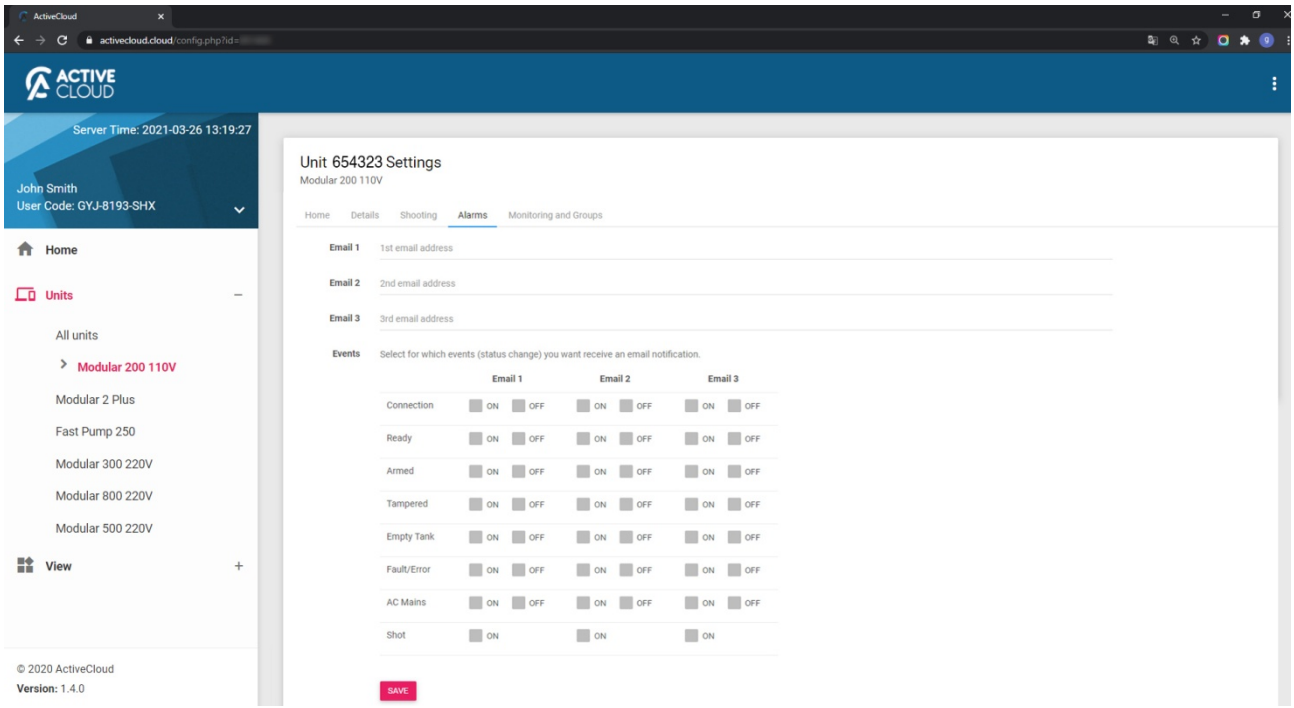
Click the SAVE button to save the current settings.



In the Alarm panel you are allowed to set emails address (up to three) and check events for which the emails will be sent.

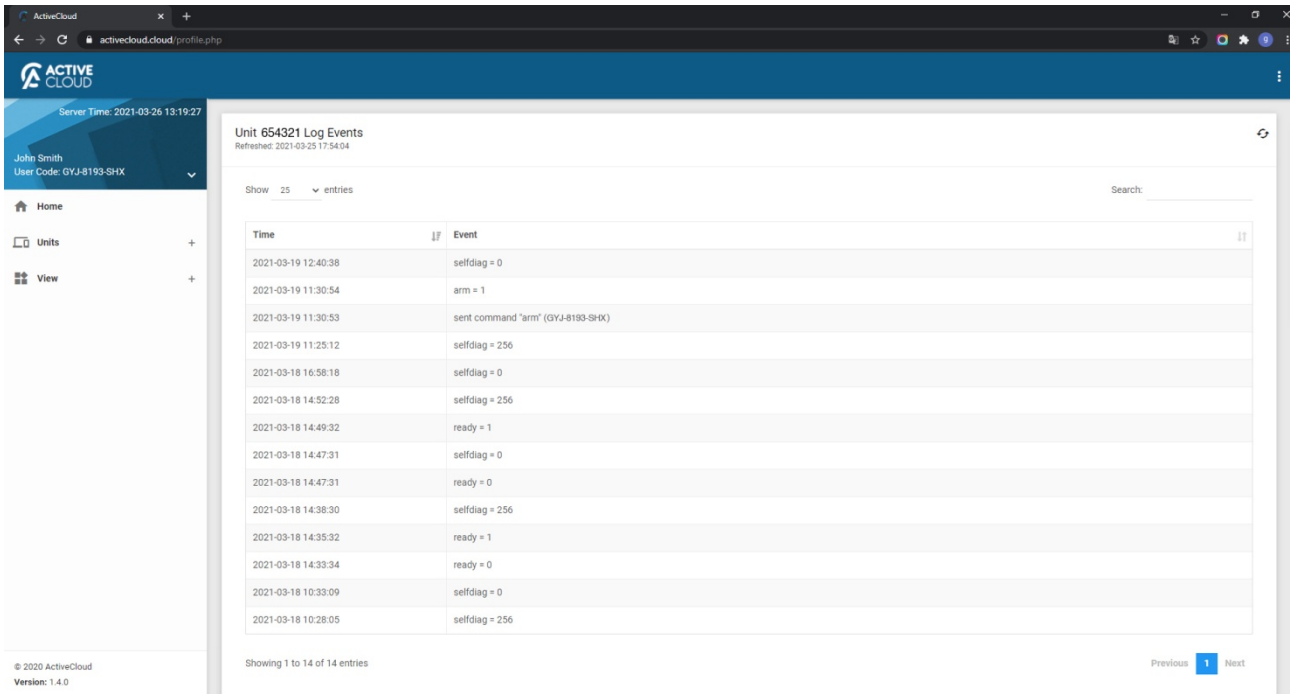
Each email address can receive custom alarms , each alarms column refers to reference email (column 1→ email address 1).

- Connection:
  - ON: an email will be sent when connection change from OFF to ON.
  - OFF: an email will be sent when connection change from ON to OFF.
- Ready:
  - ON: an email will be sent when Ready status change from NO to YES.
  - OFF: an email will be sent when Ready status change from YES to NO.
- Armed:
  - ON: an email will be sent when Armed status change from NO to YES.
  - OFF: an email will be sent when Armed status change from YES to NO.
- Tampered:
  - ON: an email will be sent when Integrity status change from OK to TAMPERED.
  - OFF: an email will be sent when Integrity status change from TAMPERED to OK.
- Empty Tank:
  - ON: an email will be sent when Fluid status change from OK to LOW FLUID.
  - OFF: an email will be sent when Fluid status change from LOW FLUID to OK.
- Fault/Error:
  - ON: an email will be sent when Diagnostic status change from OK to FAULT/ERROR.
  - OFF: an email will be sent when Diagnostic status change from FAULT/ERROR to OK.
- AC Mains:
  - ON: an email will be sent when AC Mains status change from OK to NO.
  - OFF: an email will be sent when AC Mains status change from NO to OK.
- Shoot:
  - ON: an email will be sent when a shoot is performed.



1.5 UNIT LOG DASHBOARD

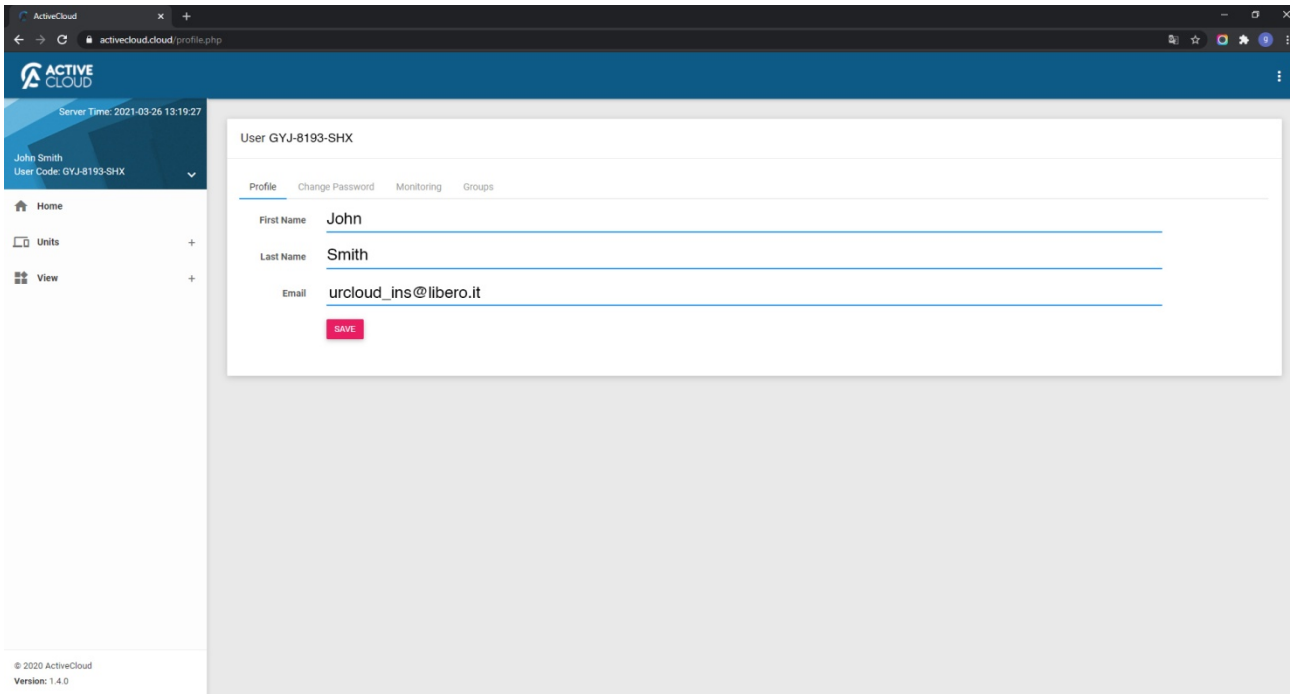
Open the UNIT LOG DASHBOARD by clicking on the ***Log*** icon in the UNIT or MONITORING DASHBOARDS. The dashboard shows a chronologically ordered list of the last 500 events for the unit.



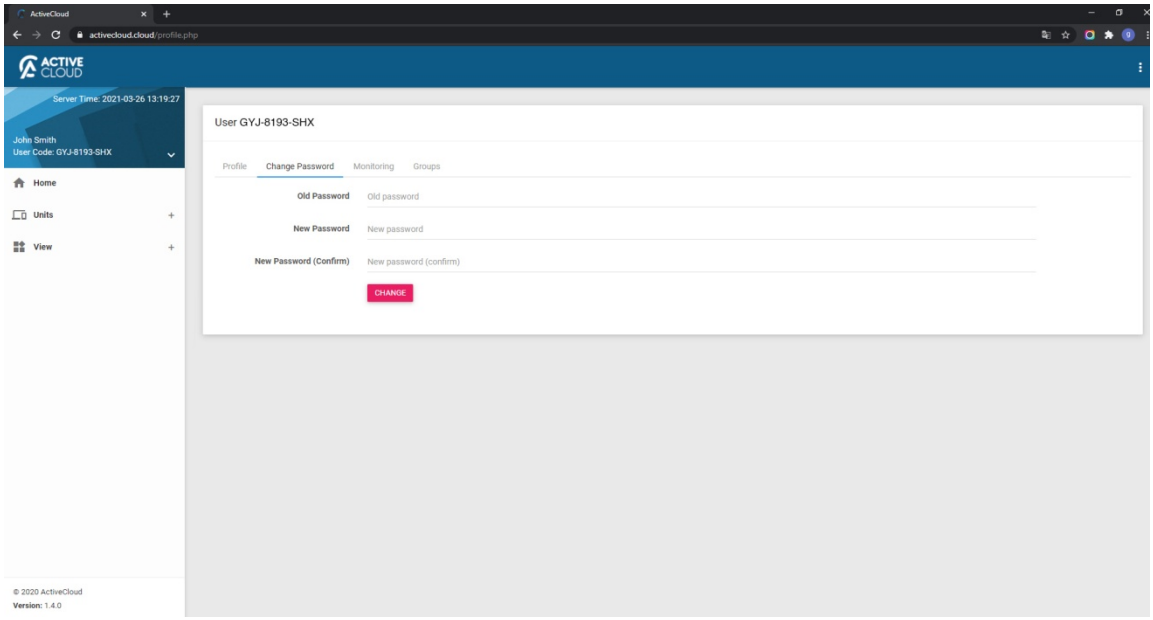
1.6 USER PROFILE DASHBOARD

Open the USER PROFILE DASHBOARD by clicking on the user profile icon in the toolbar or in the left panel.

In the Profile panel you are allowed to change the user First Name, the user Last Name and the user email. Click on the SAVE button to save the current settings.

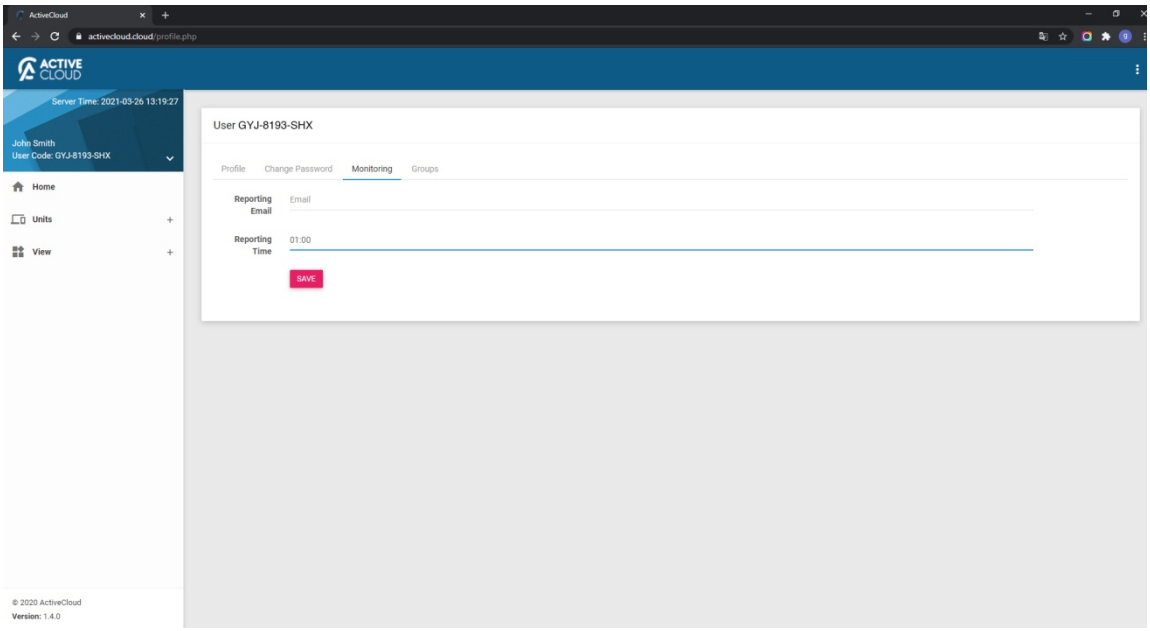


In the “Change Password” panel you are allowed to change password by entering the current password and the new password. Click on the CHANGE button to save current settings.

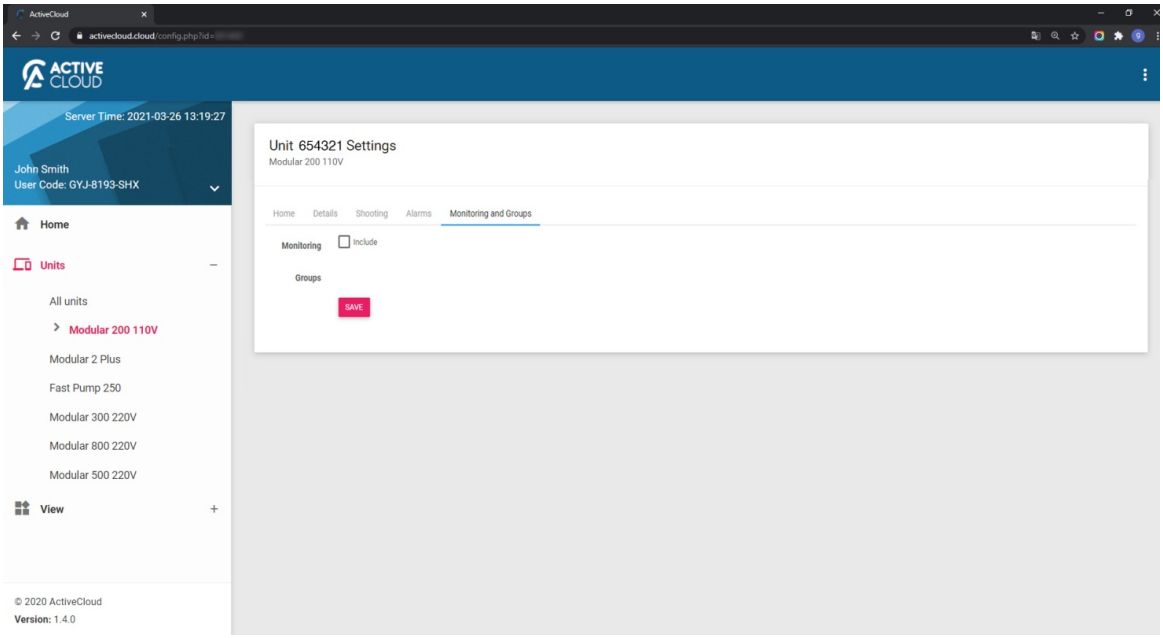


1.7 AUTOMATED EMAIL REPORTING

In “User profile” it is possible to set up ActiveCloud to send automated reports via email. This function allows a user to receive an historical report of the managed units on the ActiveCloud without the need to log in. The email address can be at the user’s discretion and does not need to be an email address registered on the ActiveCloud.



The email will be received in .XLS format on a daily basis, at a chosen time and will include diagnostic information for all units that have been selected for this report. Under “unit settings” on “Monitoring and Groups” section, check box “include” to add the unit to the report.



1.8 GROUP FUNCTIONALITY

Ad user can also create groups of units to enhance ActiveCloud interactivity. User can add up to 3 different groups up to a maximum of 10 units each. This feature simplifies the process so that the user can send broadcast commands to all the units within a group. Therefore a command sent to a unit is automatically executed by all units included in the group.

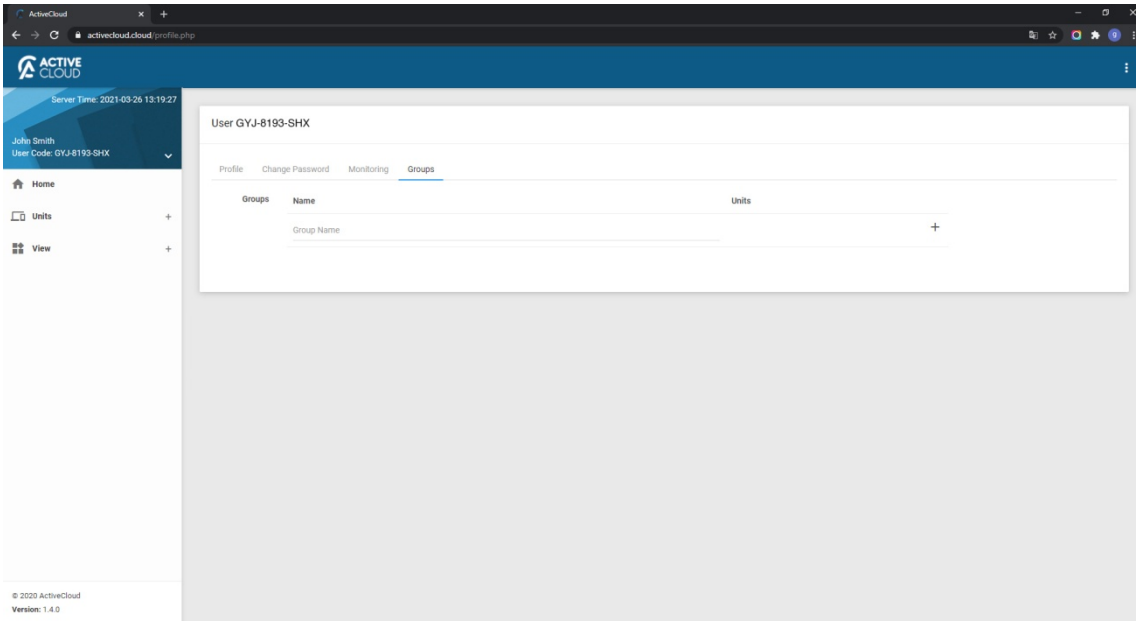
A unit can be included in more than one group.

The following commands are allowed for broadcast execution: ARM / DISARM / SHOOT. Important to note that FLUID TANK RESET and TEST SHOOT are unit specific commands and cannot be performed in a broadcast.

Once the group(s) are created, in the user profile section, they will appear for selection in the unit settings dashboard under “Monitoring and Groups” tab.

The selected units for a group will be now listed in user profile under Groups Tab.

Warning: The command sent to a unit belonging to a group will affect all units in the group. A confirmation pop-up will also be displayed as an alert reminder when commands are executed. Do not include units in a group role if an accidental shoot could affect site safety.



2.0 FIRMWARE UPDATE

Starting from Rev. 1.4.0 of the ActiveCloud system it is possible to upgrade the ActiveCloud board Firmware directly from remote.When a new firmware release is available a message (Update) will be shown near to the actual firmware release. New firmware are constantly developed to ensure best performance and new functionality , we suggest to update firmware when available.

2.1 DIAGNOSTIC LED

ActiveCloud board has a monitoring diagnostic red led (Fw. 1.2.0 and above required)that identifies possible connection issue.

2 BLINKS = no connection with local network (possible cable error)

3 BLINKS = no cloud connection (possible Internet not available)

4 BLINKS = no communication with Fog system (serial cable error , unknown unit type)

10 BLINKS = configuration error

BLINK Continuously = ready to install.

Red Led Always ON = installed correctly , operating ok.