FOURGROUP

Full-App Remote



Full-App Remote

Via Enrico Fermi, 8 - 35020 Polverara PD

Tel.049/9772407 Fax.049/9772289

www.fourgroup.it **E-mail : info@fourgroup.it**

INDEX

1. **Description**
   page……3

2. **Download and install**
   page……3

3. **Start-up access display**
   page……4

4. **Main control display**
   page……5

5. **Setup display**
   page……6

6. **Sending sms messages**
   page……7

7. **Menù display**
   page……8

8. **General setting display**
   page……9

9. **Program display - DARK**
   page……10

10. **Program display - CLEAN**
    page……11

11. **Program display - DIGIT**
    page……12

12. **Program display - MULTITANK**
    page……13

13. **Alarms display – Alarm buzzer**
    page……14

14. **Alarms display – Alarm visual**
    page……15

15. **Alarms display – Alarm GSM**
    page……16

16. **Alarms display – Alarm Relay 1**
    page……17

17. **Alarms display – Alarm Relay 2**
    page……18

18. **Setting pump 1**
    page……19

19. **Setting pump 2**
    page……20

20. **Log event display**
    page……21

1. DESCRIPTION

The Application “Full-App Remote” provides remote control functionality of pumps for domestic and/or industrial pumps connected to the control panel FOURGROUP FULL-APP model. The application “Full-App Remote” can control all the parameter settings, operating commands, modes, status reports, alarms setting and notifications, etc... All from your cellular remote smartphone/tablet/device for one or more control panels FULL-APP installed around the world. In addition, the application “Full-App Remote” allows remote control of multiple control panels enabling the user to manage all the functionalities of multiple systems from the same smartphone/tablet.

This manual describes Full-App Remote connected to a Full-App 2 control panel. If you are connecting to a Full-App 3 control panel will appear the data, commands and settings also for the third pump.

2. DOWNLOAD AND INSTALL



For cellular devices using ANDROID operating systems :

- Open GoogleStore by clicking on icon PLAYSTORE ;
- Inside PLAYSTORE go inside APP tab/section to search for “Full-App Remote” utilizing any of the following keywords: “FOURGROUP”, “FULLAPP”, “FULLAPP2”, “FULLAPP3”.
- The icon “Full-App Remote” will be listed;
- Click on icon to install the App;
- Once installed the icon “Full-App Remote” will be copied on your device desktop and the App will be ready to use.





Full-App Remote

Alternatively, to download the App you can also scan the following QR code:

Use any QR reader from your Android smartphone/tablet to scan the code to enter automatically Google Play and download the “Full-Ap Remote” App.

Or just navigate with your browser here to download:

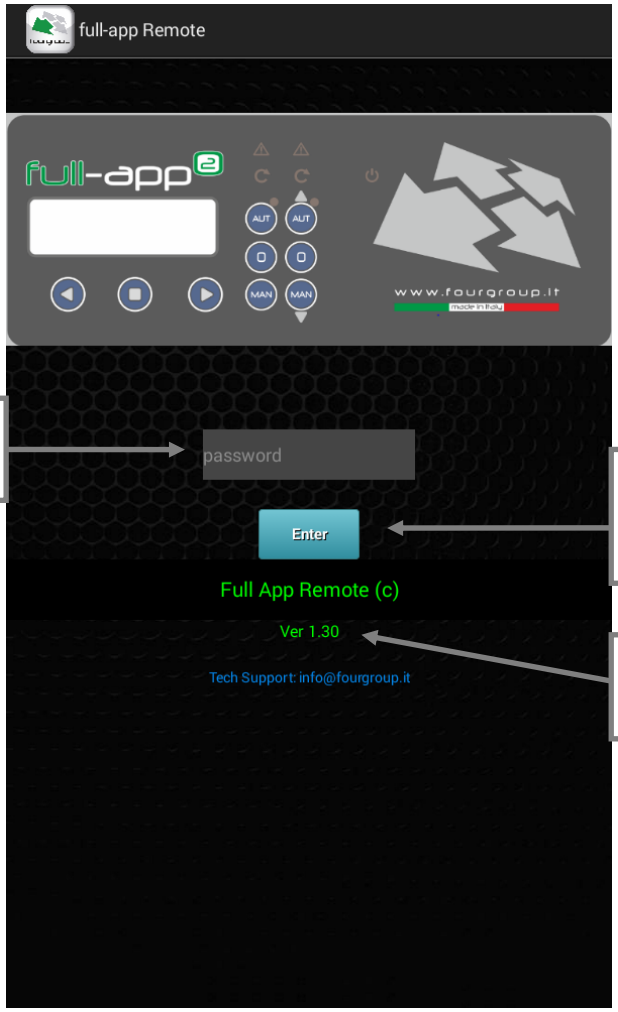
https://play.google.com/store/apps/details?id=com.FourGroup.PumpControllerApp&hl=en

NOTE: - BEFORE YOU BUY THE SIM, CHECK THAT IS COMPATIBLE WITH GSM INSTALLED –

General features of GSM --> Quad-Band GSM module 850/ 900/ 1800/ 1900 MHz - Excluded provider that haven't 2G possibility. Usable SIM --> All providers that have 2G possibility

3. START-UP ACCESS DISPLAY

Launch the App via its icon and the initial start-up access display will appear on your device:



ENTER PASSWORD

BUTTON TO ENTER PASSWORD FOR VALIDATION

APP SOFTWARE VERSION

PASSWORD:

Full-App Remote has 3 password access levels to provide/block functionalities depending on the users. Level 1 has the highest privileges as administrator:
- LEVEL 1 password: provides full access to all App functionalities (Administrator).
- LEVEL 2 password: provides access to App functionality to request and display status information of the control panel main parameters and pumps status; remote control to start/stop pumps. Blocked functionalities: setting the control panel/pumps mode, programs and operating parameters.
- LEVEL 3 password: allows access to functionalities to request and display status information of the control panel main parameters and pumps status. All the other functionalities/control is blocked for this access level.

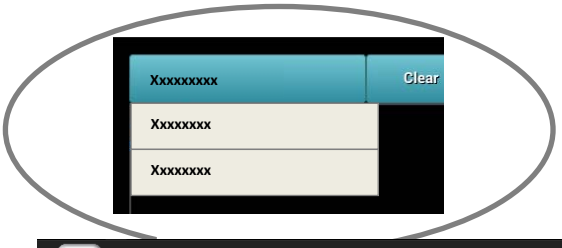
Full-App Remote is provided with the password of level 2 active: when you do the first start, just press ENTER without entering the password (with entering the password for level 2 is not possible to program / change the parameters). To access the level 1 you need to enter to the application using the password "4G1" (it has to be entered on the login screen); in this way you can use Full App Remote with all the functionality. You can then change the password in the appropriate parameter in the setup display..
Passwords can be changed and saved.
Initial passwords to enter the App with at various levels are the following. These will ALWAYS work and they can be used as recovery password:

- LEVEL 1 password: “4g1”.
- LEVEL 2 password: “4g2”.
- LEVEL 3 password: “4g3”.

4. MAIN CONTROL DISPLAY

Press the button Enter the following control display main display after password validation:

BY PRESSING THE BUTTON TO CHOICE THE SYSTEM, YOU CAN SWITCH TO THE CONTROL OF ANOTHER FULL-APP CONTROL PANEL. THE LIST CONSISTS OF TWO STATION NAMES: THE UPPER NAME RELATES TO THE "CONTROL PANEL # 1" AND THE LOWER NAME IS RELATED TO THE "CONTROL PANEL # 2" (SEE MENÙ SETUP); THE LOWER NAME IS REPLACED BY THE LAST CONTROL PANEL FULL-APP (IF YOU ARE CONNECTED TO MORE THAN 2 FULL-APP) WHO SENT A SMS TO THE APP. BY CLICKING OVER THE NAME IS POSSIBLE TO SWITCH TO THE OTHER CONTROL PANEL.



BUTTON TO CHOICE THE SYSTEM

"SETUP" BUTTON



DISPLAY SHORT "LOG". THIS WILL SHOW THE LAST 3 SMS EXCHANGES BETWEEN THE APP AND PUMP SYSTEM. TO VIEW THE FULL LOG (30 SMS) PRESS THE BUTTON "LOG".

REMOTE SYSTEM STATUS

PRESS THE BUTTON "STATUS" TO UPDATE THE REMOTE SYSTEM STATUS TO ITS CURRENT STATE. THE CONTROL PANEL WILL SEND THE INFORMATION WHICH WILL BE DISPLAYED ON YOUR SCREEN.

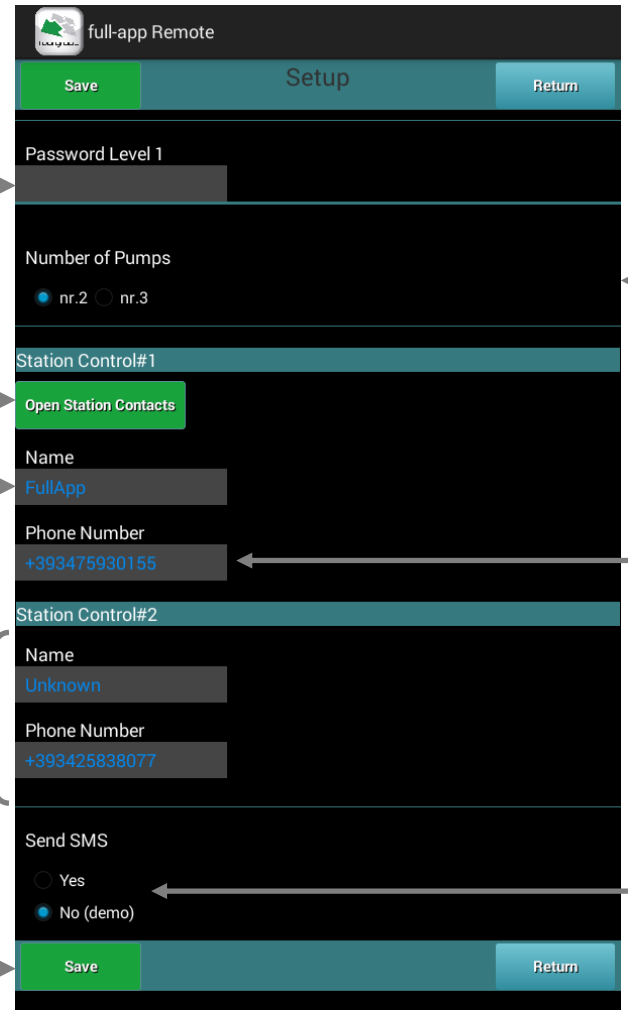
BUTTONS TO CONTROL THE PUMPS

The buttons to control the pumps are available to password access levels 1 and 2. With password access level 3 these buttons are not accessible to block these users from controlling these functionalities remotely via the App.

To maximize the App "Full-App Remote" functionality it is advised to launch the App and to keep it open on the background of your smartphone/tablet (press bottom-centre button of the Android smartphone/device to put on the background without closing it). This is to make sure all the potential SMS sent by various remote systems are monitored and to utilize all other functionality that the App provides.

5. SETUP DISPLAY

Press the button Setup to enter in the "Setup" display:



INPUT TO MODIFY THE PASSWORD

ACCESS TO CONTACTS TO CONNECT TO REMOTE CONTROL PANEL (IF SAVED ON CONTACTS)

INPUT NAME OF REMOTE CONTROL PANEL (IF NOT SAVED ON CONTACTS)

SECOND CONTROL PANEL FULL-APP, OR TO AUTOMATICALLY STORE NAME/NUMBER IN CASE OF AN INCOMING ALARM FROM A DIFFERENT FULL-APP SYSTEM.

BUTTON TO SAVE NEW SETTINGS

NUMBER OF PUMPS OF THE REMOTE SYSTEM CAN CONTROL:
2 PUMPS -> FULL-APP 2
3 PUMPS -> FULL-APP 3.

INSERT TELEPHONE NUMBER OF THE "SIM" CARD INSERTED IN THE CONTROL PANEL

POSSIBILITY TO UTILIZE THE APP WITH OR WITHOUT COMMUNICATING WITH REMOTE CONTROL PANEL
YES: ONLINE DEFAULT NORMAL OPERATION.
NO (DEMO): OFFLINE; NO SMS WILL BE SENT

To start using Full-App Remote you need to setup the remote control panel information. It's 's advised to add to your smartphone "Contacts" the control panel phone numbers / names you wish to control remotely. Alternatively, you can enter/modify the name and number manually from within the App "Setup" display.

- Select the control panel from your list of contacts by pressing the button Open Station Contacts (if present in your contacts). If the phone number of the control panel SIM card has not been saved in the smartphone's contacts you can always manually insert it (Name/Phone Number in the Setup display).

Important: in the remote control panel will need to have the phone number of your smartphone/tablet in the list of numbers to alert in case of alarms.

Ovviamente nel quadro devono essere stati impostati il numero del telefono che si sta utilizzando con la App ed il nome stazione (che deve corrispondere a quanto inserito sulla casella "Nome").

Press Save to save all the settings. To exit "Setup" without saving the modification and go back to the main control screen press the button Return. By pressing button Status the App "Full-App Remote" will automatically detect the configuration of the remote control panel and if it's a system with 2 or 3 pumps (Full-App 2 or Full-App 3).

6. SENDING SMS MESSAGES

The control panel series Full-App and the application Full-App Remote communicate with each other via SMS messages. The cost of sending SMS will depend on your network operator and contract. Following are the buttons that once pressed will imply sending a single SMS message and therefore a cost depending on your operator.

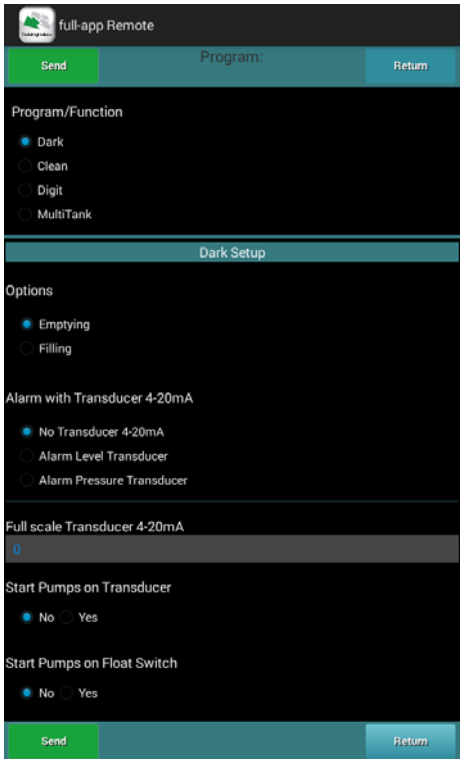
Main Control Screen:



BUTTON TO CONTROL PUMPS: every time the buttons are pressed 1 SMS from your phone to the control panel will be sent.

STATUS BUTTON: every time the button is pressed the smartphone will send 1 SMS to request the status and 1 SMS from the control panel GSM card as response.

On the various control screens:



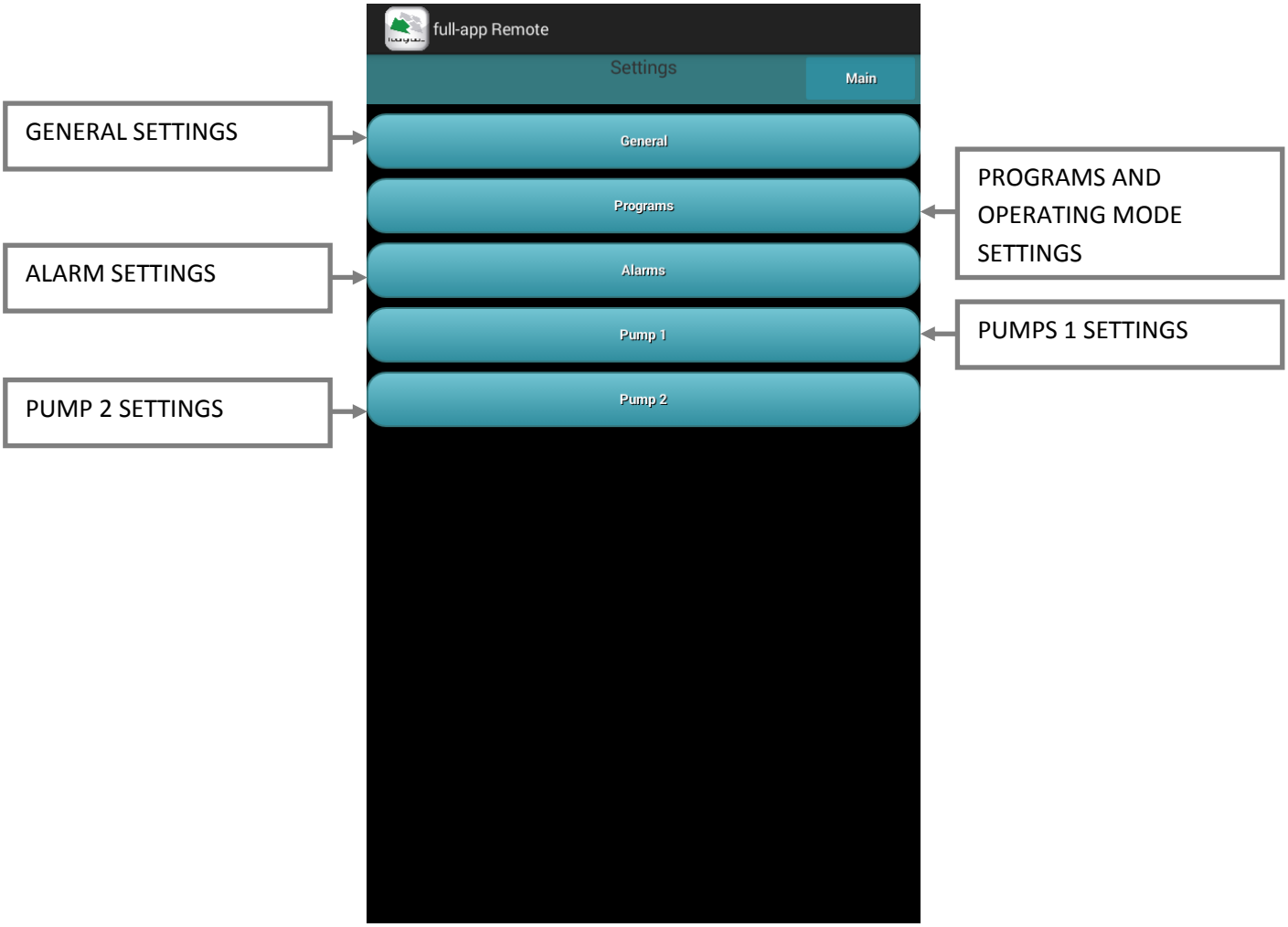
SEND BUTTON: every time the buttons are pressed 1 SMS from your phone to the control panel will be sent. The settings will be saved on the panel.

In the various screens to program the control panel general settings, pumps, operating modes, alarms, etc. the buttons Send, each time the button is pressed, will send 1 SMS from the phone to the control panel.

7. MENU DISPLAY

Press the button 

,in the main control screen, to access the list of various menus to access the various setting of parameters:



Parameters settings:

The App controls the setting of all parameters of control panel, for the full detail descriptions of such parameters please refer to instruction manuals of the control panel Full-App.

8. GENERAL SETTING DISPLAY

Press the button General , in the menu screen, to access the following general setting display:

MAXIMUM NUMBER OF PUMPS CONTROLLED BY THE SYSTEM AND WORKING AT THE SAME TIME

DELAY PROTECTION SETTINGS

PUMPS SELF-TEST SETTING AND ITS DURATION

SETTING OF MANUAL OPERATION MODE

RESTARTS SETTINGS AFTER STOP FOR DRY OPERATION



TYPE OF ALTERNANCE PUMPS (ROTATION PUMPS):

NO: there will be no rotation of starting pumps. The pumps will start and stop depending on their own settings of activation and deactivation. N.B.: the condition for starting pump2 will also start pump 1.

Every Start LIFO: At every activation of the first starting condition the pumps will start in a cyclic order; at every activation of the second condition will result in the start of the second pump. The stopping of the pumps will be by in reverse order, firstly stopping the pump that started last, and then stopping the pump that started first.

Nr. Starts: the rotation will happen based on the number of starts of each pump. to balance the number of starts between the pumps. The stopping of the pumps will order the pump with the least number of starts (in order to have it re-start next and increase the number of restarts to try to balance it).

Work Time the rotation of the pumps will be based on the number of working hours of each pump in order to balance the load and number of working hours between the pumps. The stopping of the pumps will be in order of the most working hours. .

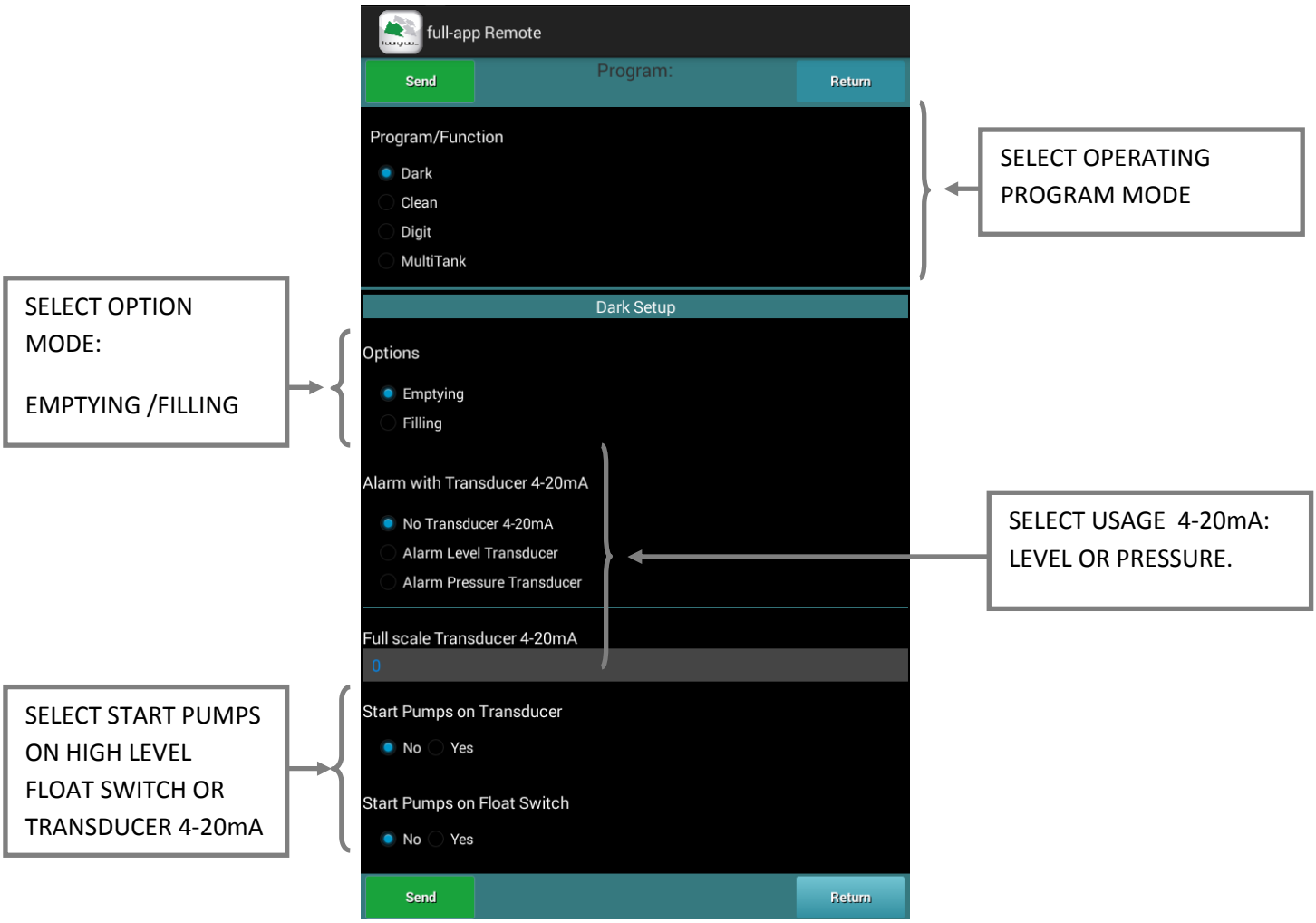
Timer: will activate the timer rotation: the rotation between pumps will be based on the programmable timer described in the next parameter ("Alternance Timer").

Every Start FIFO: At every activation of the first starting condition will result in a cyclic order of the pumps; at every activation of the second condition will result in the start of the second pump. The stopping of the pumps will be in sequence in which the pumps started. Firstly stopping the pump which started first and then stopping the pump that started last.

Once all the settings are entered, press the button Send to send **all** the settings to the remote control panel for "General parameters". Pressing the button Return will bring you back to the menu display without sending the info to the control panel.

9. PROGRAM DISPLAY - DARK

Press the button Programs in the menu display to access the following “Programs”. In this part of the of control panel setting it’s possible to choose the program operating mode (for the correct operation of the system it is necessary to install the pumps and the set of the control panel parameters based on the program mode selected). Depending on the operating program mode the appropriate settings and options are available on the display. Following are the settings/options for the operating program **DARK**:

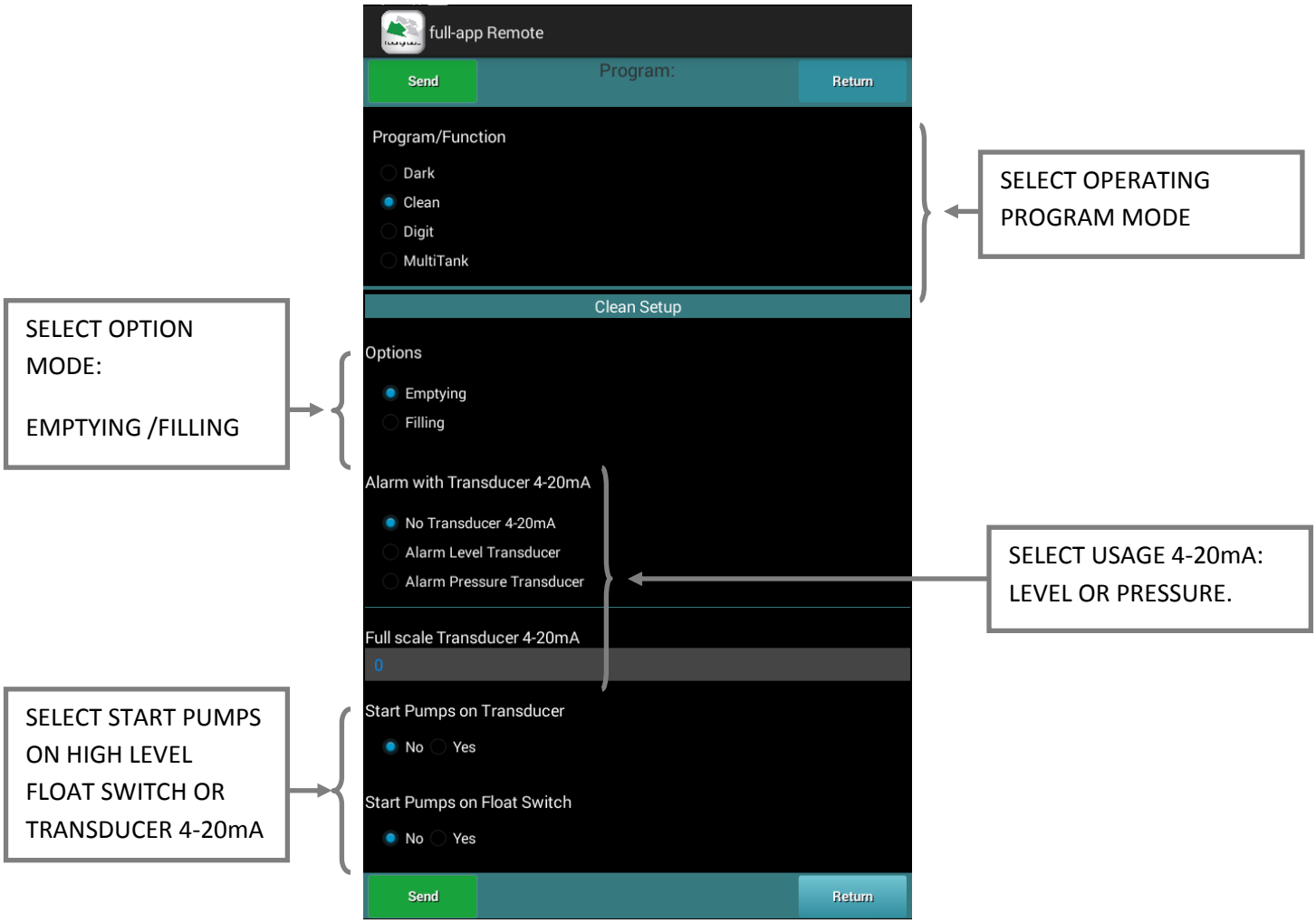


The program Dark is particularly suitable for systems managing waste water (this program mode can also be used for clean water system). Especially suitable for a system using float switches, the program Dark can be used also with generic dry contacts. The main characteristic of operation of the program Dark is that the pumps start is controlled via a start float switch and its operation will continue even after the “start switch” deactivation. The stopping of the pump is controlled by the activation of its stop float switch. The operating mode DARK will apply to all the pumps connected.

Once all the settings are entered, press the button Send to send **all** the settings to the remote control panel for the program operating mode. Pressing the button Return will bring you back to the menu display without sending the info to the control panel.

10. PROGRAM DISPLAY - CLEAN

Following are the settings/options for the operating program **CLEAN**:



The program Clean is particularly suitable for systems managing clean water (this program mode can also be used for waste water system). Especially suitable for system using either pressure switches or float switches, the program Clean can be used also with generic dry contacts. With the program Clean the starting and stopping of the pumps are controlled via the start float switch; it is possible to connect to a minimum level float switch as additional protection against dry running operation. The operating mode CLEAN will apply to all the pumps connected.

Once all the settings are entered, press the button Send to send **all** the settings to the remote control panel for the program operating mode. Pressing the button Return will bring you back to the menu display without sending the info to the control panel.

11. PROGRAM DISPLAY - DIGIT

Following are the settings/options for the operating program **DIGIT**:

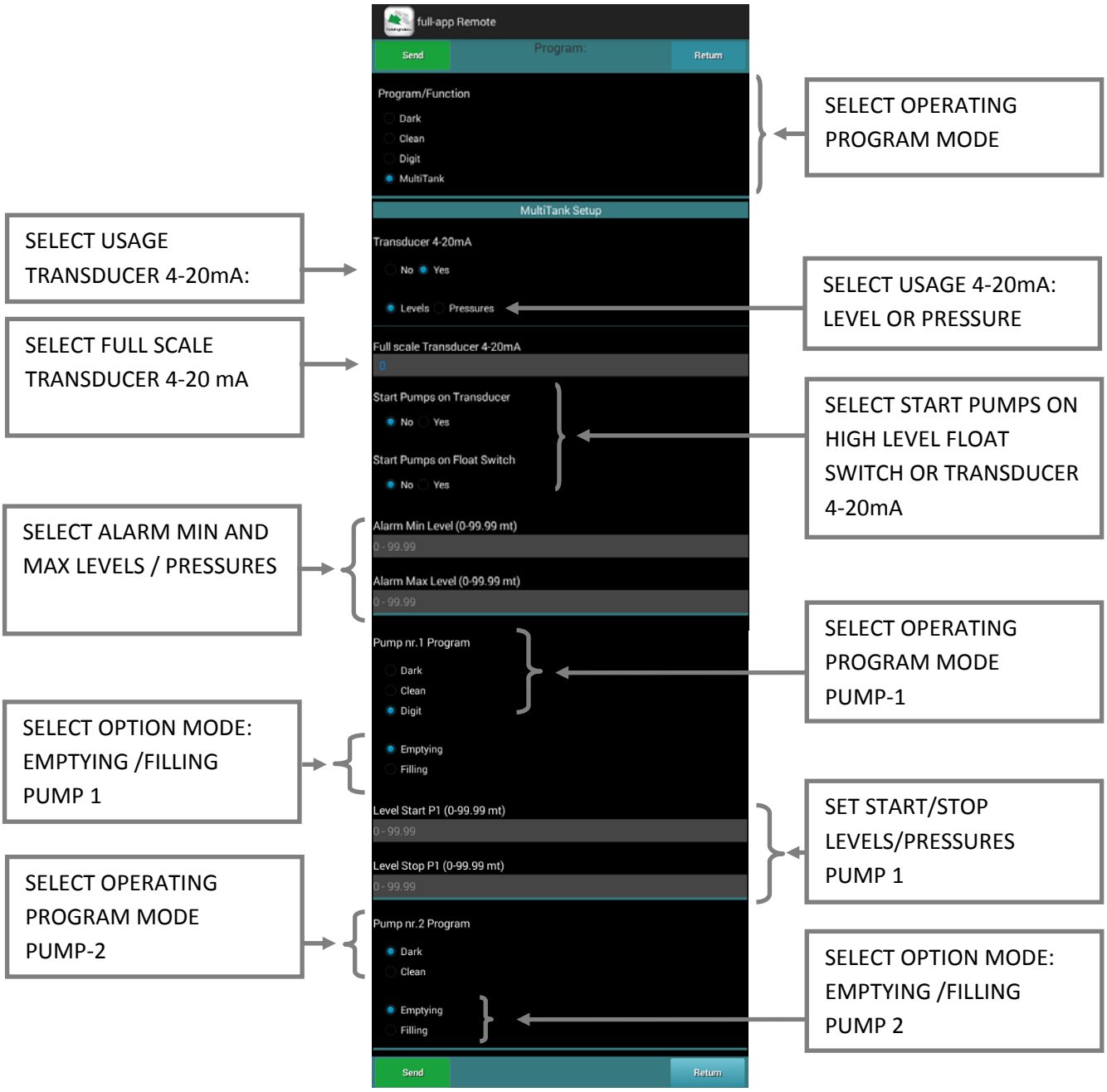


The program DIGIT allows the starting and stopping of the pumps based on a signal coming from 4-20 mA device (for example, level piezoresistive sensor, electronic pressure transducer,…). It is possible to control the starting and stopping of the pumps based on some levels/pressures programmable by the operator. The operating mode DIGIT will apply to all the pumps connected.

Once all the settings are entered, press the button Send to send **all** the settings to the remote control panel for the program operating mode. Pressing the button Return will bring you back to the menu display without sending the info to the control panel.

12. PROGRAM DISPLAY - MULTITANK

Following are the settings/options for the operating program **MULTITANK**:



The program MULTITANK allows the different type of operating mode among the connected pumps:

PUMP 1: DARK, CLEAN, DIGIT. (The program mode DIGIT is only available for the pump 1).

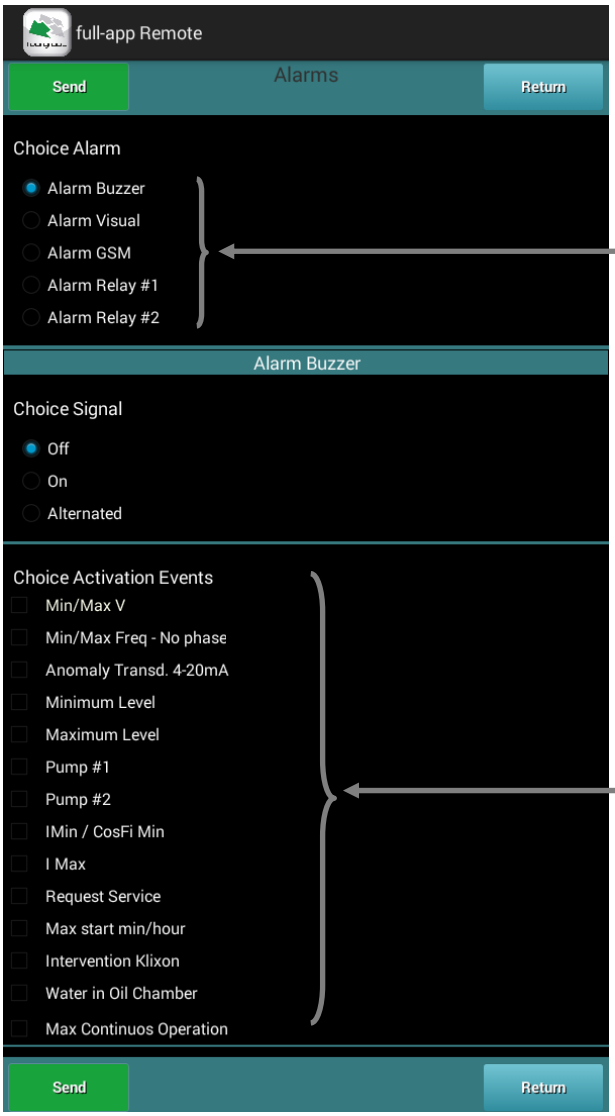
PUMP 2: DARK, CLEAN.

The program MULTITANK is especially suitable for systems with pumps controlling different tanks and/or controlling different type of pumps with a single control panel.

Once all the settings are entered, press the button Send to send **all** the settings to the remote control panel for the program operating mode. Pressing the button Return will bring you back to the menu display without sending the info to the control panel.

13. ALARMS DISPLAY – ALARM BUZZER

Press the button Alarms in the menu screen to access the following "Alarms" display. In this part of the of control panel setting it's possible to choose the various alarms output settings. Following are the settings/options for the "**Alarm Sounds**":



OUTPUT ALARM OPERATING MODE:

OFF: non used.

ON: in the presence of an alarm (among the selected) the output alarm is on and the connected device will activate. In the absence of an alarm the output is off and the connected device is turned off.

ALTERNATED: in the presence of an alarm (among the selected) the output alarm is on with intermittent pulses and the connected device will activate intermittently. In the absence of an alarm the output is off and the connected device is turned off.

SELECT PROGRAMMABLE OUTPUT ALARM

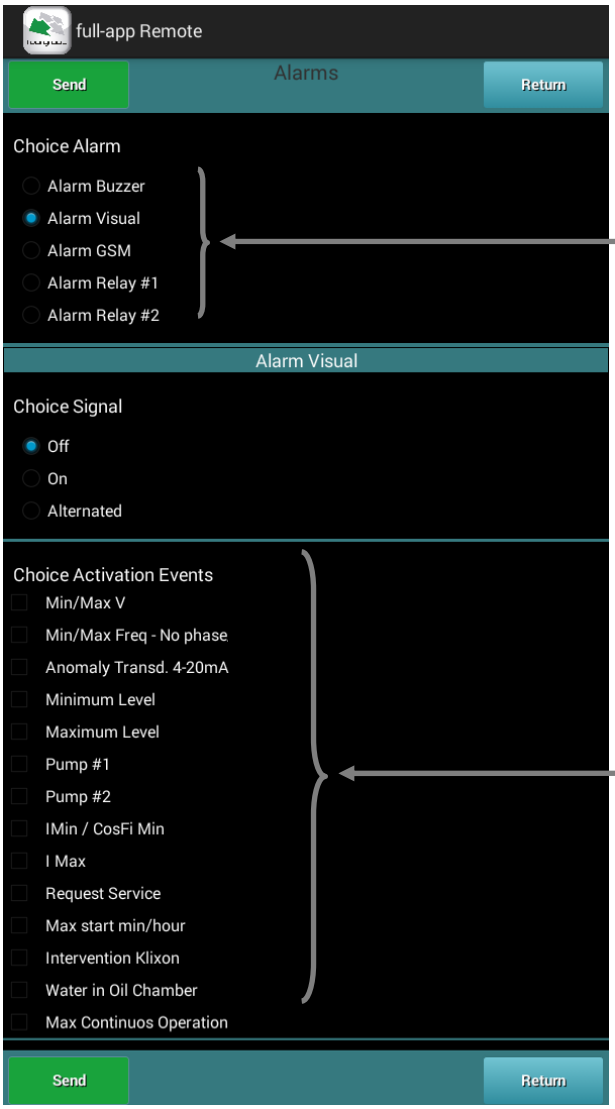
SELECT THE EVENTS THAT WILL ACTIVATE THE OUTPUT ALARM

The alarms "IMin / Cos ø Min", "I Max", "Request Service", "Max Start per Min/Hour", "Intervention Klixon", "Water in Oil Chamber" e "Max Continuous Operation", to be triggered, MUST be associated to at least one pump; at least one of the "Alarms pump" must be active.

Once all the settings are entered, press the button Send to send **all** the settings to the remote control panel for all programmable output alarms. Pressing the button Return will bring you back to the menu display without sending the info to the control panel.

14. ALARMS DISPLAY – ALARM VISUAL

Following are the settings/options for the "**Alarm Visual**":



OUTPUT ALARM OPERATING MODE:

OFF: not used.

ON: in the presence of an alarm (among the selected) the output alarm is on and the connected device will activate. In the absence of an alarm the output is off and the connected device is turned off.

ALTERNATED: in the presence of an alarm (among the selected) the output alarm is on with intermittent pulses and the connected device will activate intermittently. In the absence of an alarm the output is off and the connected device is turned off.

SELECT PROGRAMMABLE OUTPUT ALARM

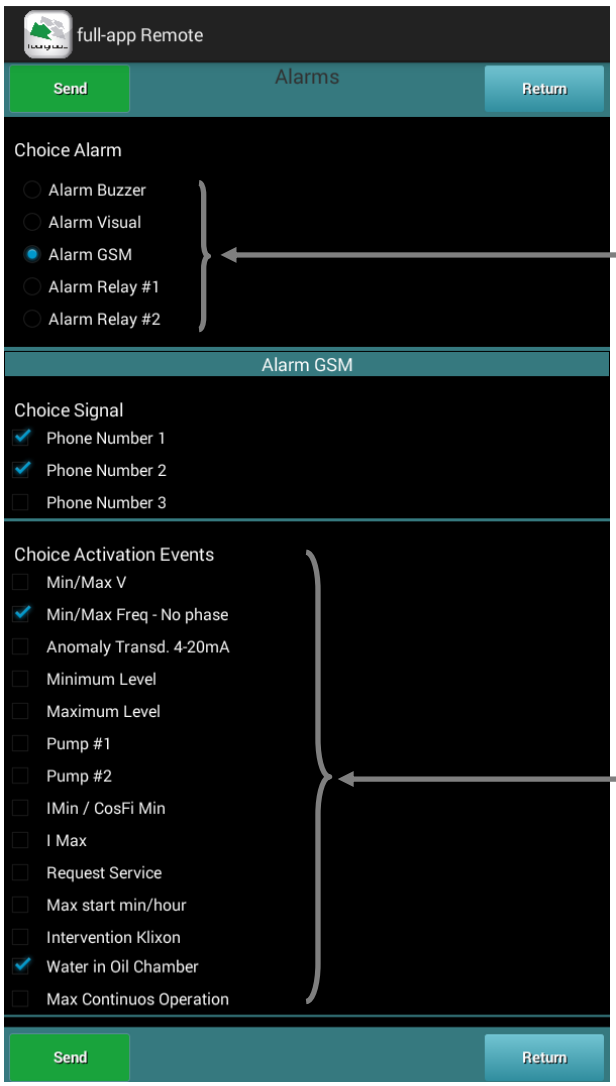
SELECT THE EVENTS THAT WILL ACTIVATE THE OUTPUT ALARM

The alarms "IMin / Cos ø Min", "I Max", "Request Service", "Max Start per Min/Hour", "Intervention Klixon", "Water in Oil Chamber" e "Max Continuous Operation", to be triggered, MUST be associated to at least one pump; at least one of the "Alarms pump" must be active.

Once all the settings are entered, press the button Send to send **all** the settings to the remote control panel for all programmable output alarms. Pressing the button Return will bring you back to the menu display without sending the info to the control panel.

15. ALARM DISPLAY – ALARM GSM

Following are the settings/options for the "**Alarm GSM"**:



SELECT PROGRAMMABLE OUTPUT ALARM

SELECTION OF THE PHONE NUMBERS TO SEND ALARM MESSAGES (SMS).

It is possible to send Alarm SMS to one, two or three of the phone numbers that have been setup in the remote control panel (the actual phone numbers must be set in the remote control panel).

SELECT THE EVENTS THAT WILL TRIGGER THE CONTROL PANEL TO SEND AN ALARM MESSAGE (SMS) TO THE APP.

The alarms "IMin / Cos ø Min", "I Max", "Request Service", "Max Start per Min/Hour", "Intervention Klixon", "Water in Oil Chamber" e "Max Continuous Operation", to be triggered, MUST be associated to at least one pump; at least one of the "Alarms pump" must be active.

IN THE EVENT OF A POWER FAILURE TO THE CONTROL PANEL (BLACK-OUT), THE CONTROL PANEL WILL AUTOMATICALLY SEND A SMS MESSAGE OF ALARM AND ANOTHER SMS MESSAGE TO THE RETURN OF VOLTAGE (THIS AT EVERY EVENT OF MAINS FAILURE AND MAINS RETURN). IT DOES NOT NEED ANY CONFIGURATION AND YOU CAN NOT ELIMINATE THIS FEATURE.IN THE EVENT OF A POWER FAILURE TO THE CONTROL PANEL (BLACK-OUT) DO NOT SEND SMS MESSAGES FROM THE APP TO THE CONTROL PANEL: THEY WILL NOT BE TAKEN INTO CONSIDERATION AND WILL BE AUTOMATICALLY REMOVED (THIS TO AVOID THE BLOCK OF THE SIM CARD WITH A LOT OF UNPROCESSED SMS).

Once all the settings are entered, press the button Send to send **all** the settings to the remote control panel for all programmable output alarms. Pressing the button Return will bring you back to the menu display without sending the info to the control panel.

16. ALARM DISPLAY – ALARM RELAY 1

Following are the settings/options for the "**Alarm Relay #1":**

OUTPUT ALARM OPERATING MODE:

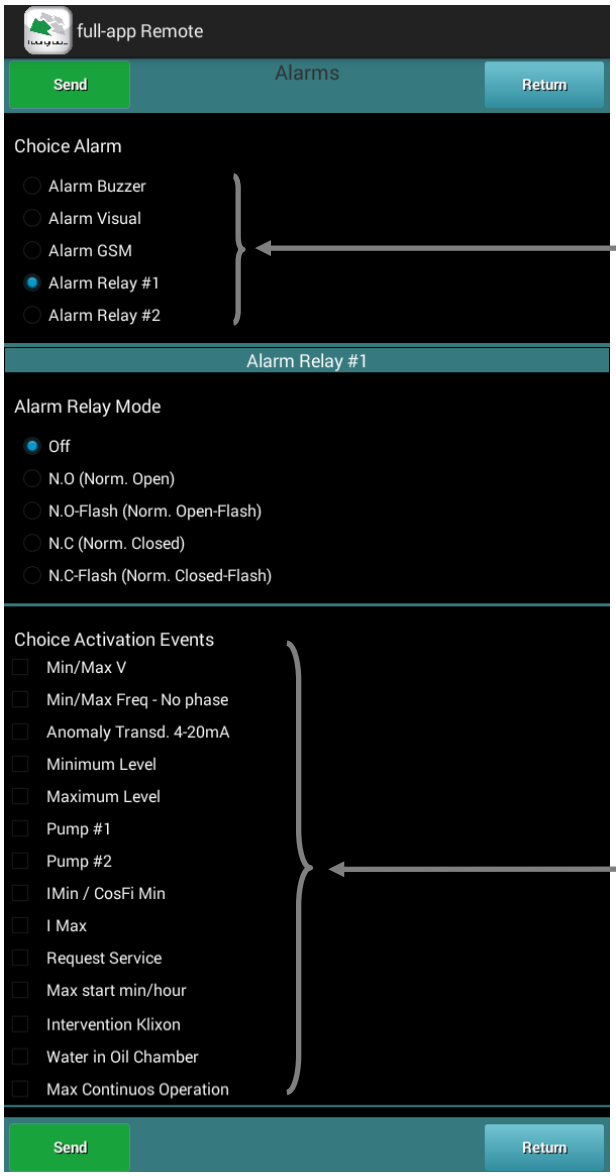
OFF: not used.

N.O. (Norm. Open): in the presence of an alarm (among the selected) the output relay alarm is activated and it changes status; that is, the contact N.O will close relative to COM and the contact N.C will open.

N.O-Flash. (Norm. Open-Flash): in the presence of an alarm (among the selected) the output alarm will be on at intermittent pulses and therefore there will be and intermittent change of contacts.

N.C. (Norm. Closed): the output relay alarm is always active in absence of an alarm (among the selected). Without the alarm the contact N.O is closed and the contact N.C. is open.

N.C-Flash (Norm. Closed-Flash): the output is always on (the device connected is on) in absence of an alarm. In the presence of an alarm (among the selected) the output alarm is on with intermittent pulses and the connected device will activate intermittently.



SELECT PROGRAMMABLE OUTPUT ALARM

SELECT THE EVENTS THAT WILL ACTIVATE THE OUTPUT ALARM

For The alarms "IMin / Cos ø Min", "I Max", "Request Service", "Max Start per Min/Hour", "Intervention Klixon", "Water in Oil Chamber" and "Max Continuous Operation", to be triggered, MUST be associated to at least one pump; at least one of the "Alarms pump" must be active.

Once all the settings are entered, press the button Send to send **all** the settings to the remote control panel for all programmable output alarms. Pressing the button Return will bring you back to the menu display without sending the info to the control panel.

17. ALARM DISPLAY – ALARM RELAY 2

Following are the settings/options for the "**Alarm Relay #2"**:

OUTPUT ALARM OPERATING MODE:

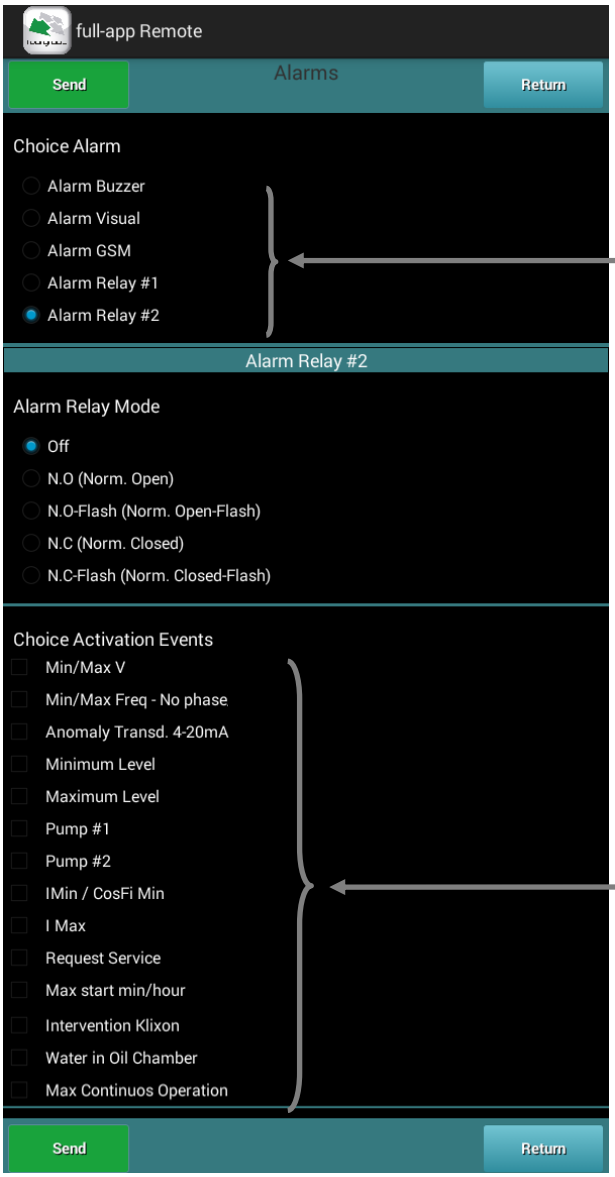
OFF: not used.

N.O. (Norm. Open): in the presence of an alarm (among the selected) the output relay alarm is activated and it changes status; that is, the contact N.O will close relative to COM and the contact N.C will open.

N.O-Flash. (Norm. Open-Flash): in the presence of an alarm (among the selected) the output alarm will be on at intermittent pulses and therefore there will be and intermittent change of contacts.

N.C. (Norm. Closed): the output relay output alarm is always active in absence of an alarm (among the selected). Without the alarm the contact N.O is closed and the contact N.C. is open.

N.C-Flash (Norm. Closed-Flash): the output is always on (the device connected is on) in absence of an alarm. In the presence of an alarm (among the selected) the output alarm is on with intermittent pulses and the connected device will activate intermittently.



SELECT PROGRAMMABLE OUTPUT ALARM

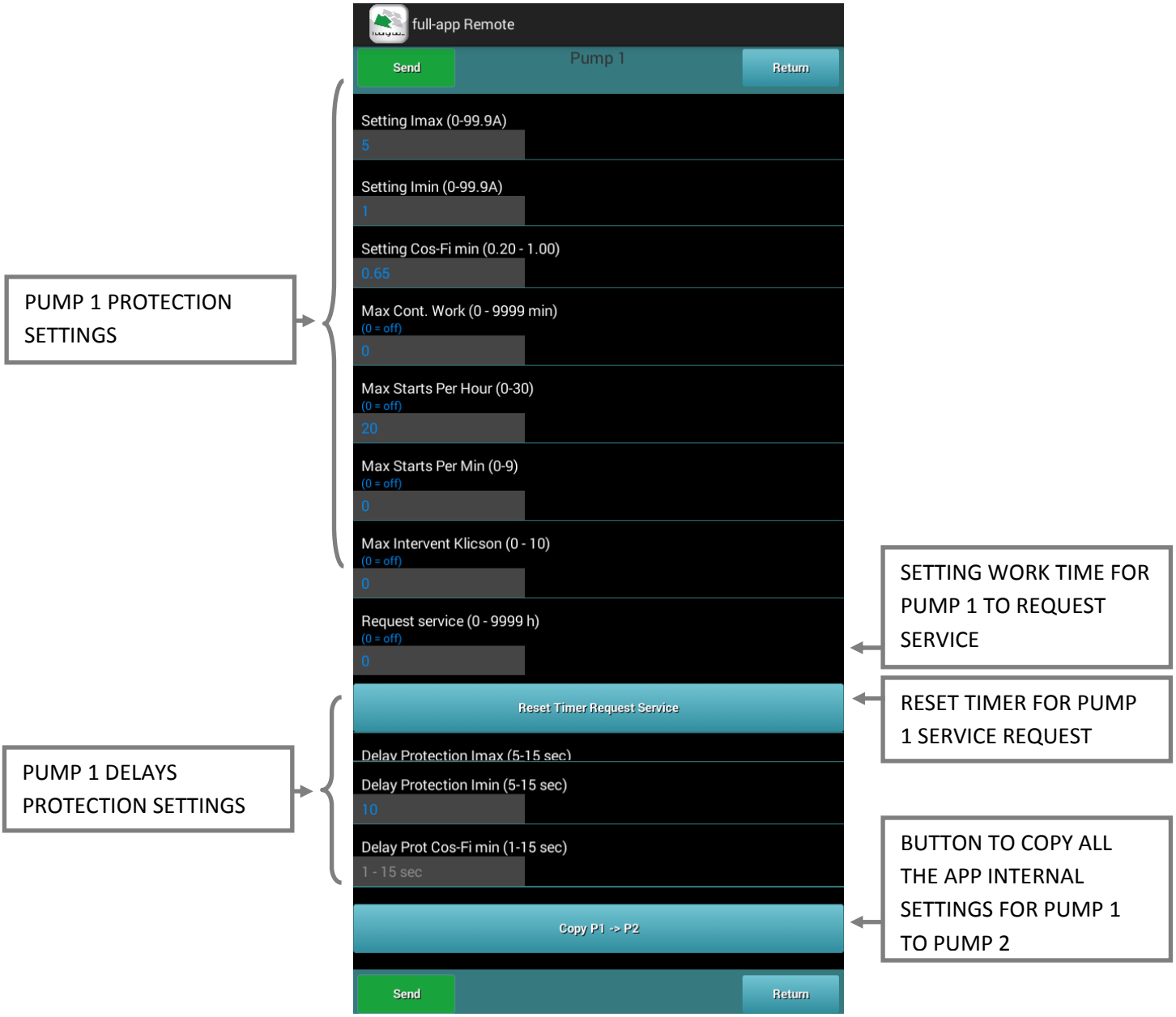
SELECT THE EVENTS THAT WILL ACTIVATE THE OUTPUT ALARM

For the alarms "IMin / Cos ø Min", "I Max", "Request Service", "Max Start per Min/Hour", "Intervention Klixon", "Water in Oil Chamber" and "Max Continuous Operation", to be triggered, they MUST be associated to at least one pump; at least one of the "Alarms pump" must be active.

Once all the settings are entered, press the button Send to send **all** the settings to the remote control panel for all programmable output alarms. Pressing the button Return will bring you back to the menu display without sending the info to the control panel.

18. SETTING PUMP 1

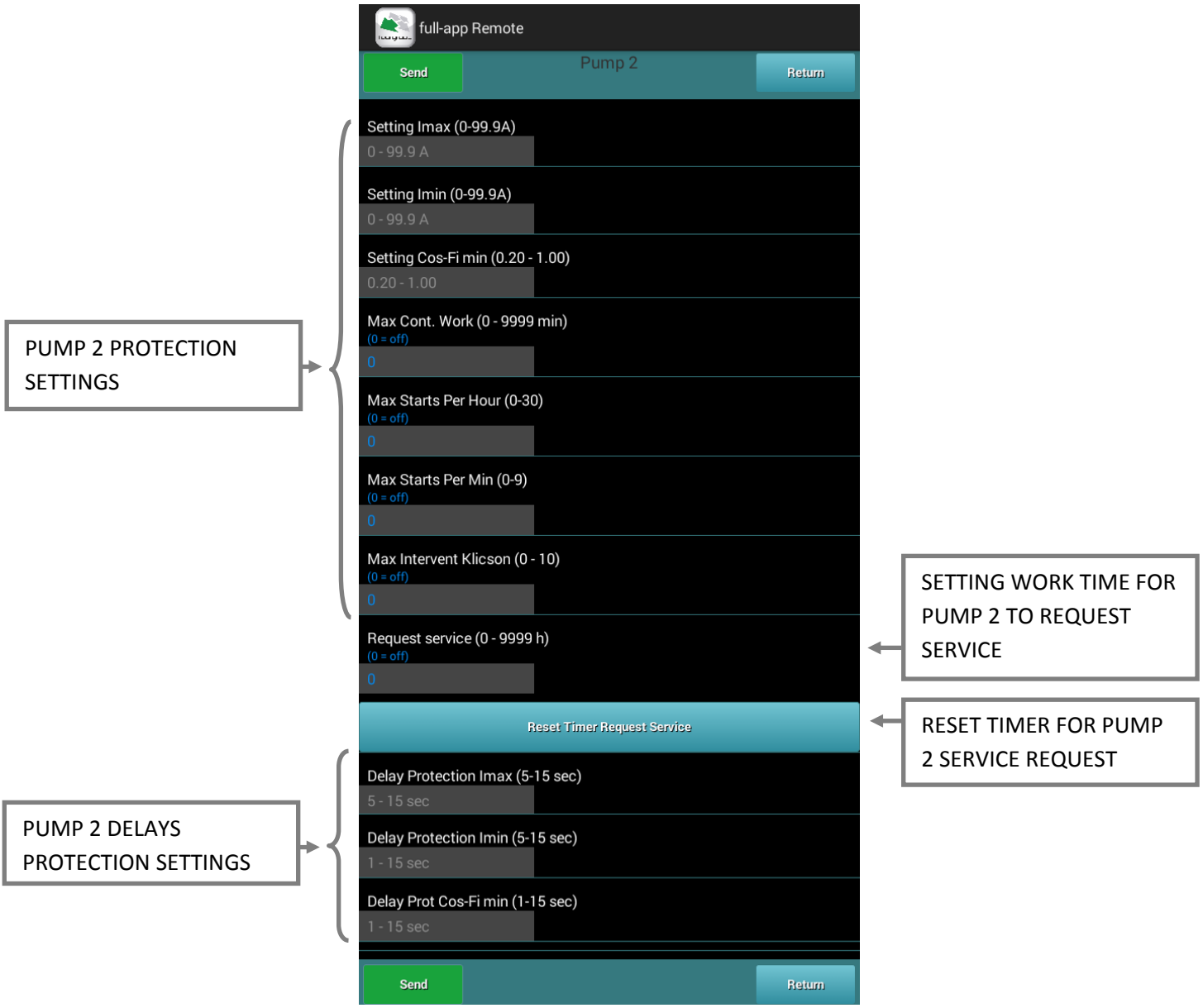
Press the button Pump 1 in the menu screen to access the following “Pump 1” setting display:



Once all the settings are entered, press the button Send to send **all** the settings to the remote control panel for Pump 1. Pressing the button Return will bring you back to the menu display without sending the info to the control panel.

19. SETTING PUMP 2

Press the button Pump 2 in the menu screen to access the following “Pump 2” setting display:



Once all the settings are entered, press the button Send to send **all** the settings to the remote control panel for Pump 1. Pressing the button Return will bring you back to the menu display without sending the info to the control panel.

20. LOG EVENT DISPLAY

Press the button 

on the main menu control display to view the historic log of events. Around thirty events of communication between the App and the remote control panel will be saved in the log. The log will maintain the most recent events with timestamp and eventually remove old events from the list::



Press button 

to clear all the events from the historic log. Press the button 

to go back to the menu display.