



# **PRIZMA**

**Android application "PRIZMA LINK"**

**User Manual  
for Dry Salt Aerosol Generator  
model "PRIZSALT+"**

**v 1.0**

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## 1. Revision list

Version	Date	Description of changes
1.0	Nov 2015.	Initial version

## 2. Introduction and requirements

Android application "PRIZMA LINK" is intended for wireless remote control and monitoring of halogenerator PRIZSALT+ made by PRIZMA.

Application operates on an Android device running Android 4.3 or higher operating system that supports Bluetooth.

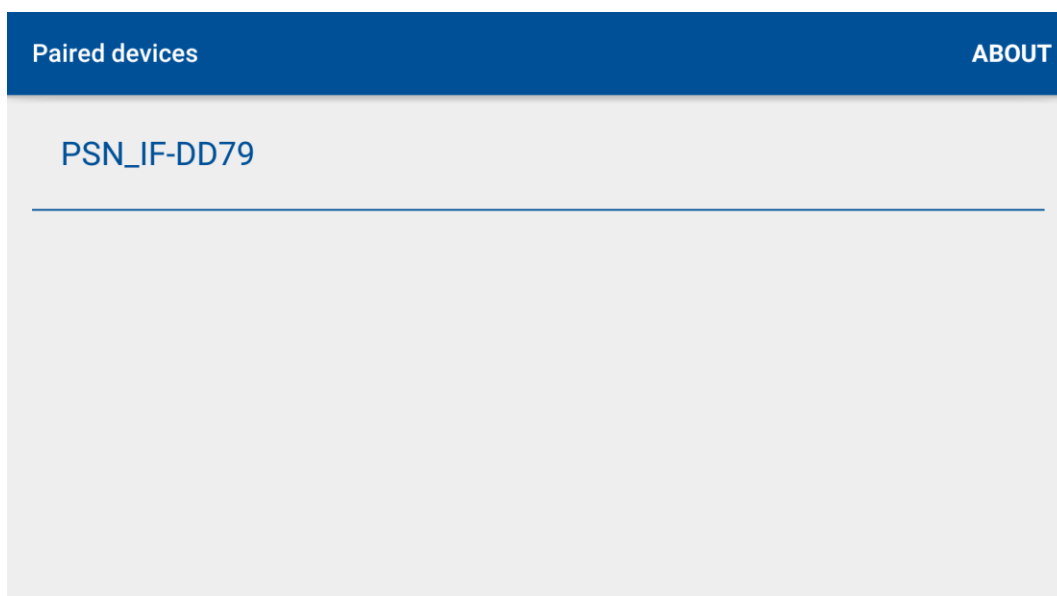
It is assumed that the user has enough knowledge to start an Android device, pair it with the halogenerator through Bluetooth connection, navigate through menus and visual controls and can start programs.

Manual pairing must be done. Halogenerators PRIZSALT+ have Bluetooth name like **PSN\_IF-xxxx** (xxxx are four characters unique for each halogenerator of PRIZMA), and pairing code is **1234**.

### 3. Establishing connection to halogenerator

1. Install Android application “PRIZMA LINK”, provided by PRIZMA.
2. Turn halogenerator ON.
3. Turn on Bluetooth on Android device, find halogenerator with Bluetooth name like **PSN\_IF-xxxx** and pair them. Pairing code is **1234**.
4. Find icon “PRIZMA LINK” and start application by clicking the icon.
5. After starting, program tries to establish connection with paired halogenerator device. If Android device and halogenerator are paired, picture similar to 3.1 will appear on the screen.

**NOTE:** If Android device and halogenerator are not paired, application will close.



Picture 3.1

6. Click on Bluetooth name like **PSN\_IF-xxxx** and picture similar to 3.2 will appear on the screen.



Picture 3.2


**NOTE:** Restart the PRIZSALT+ if the connection is not established for a long time and status line indicates **Unable to connect device**.



Picture 3.3

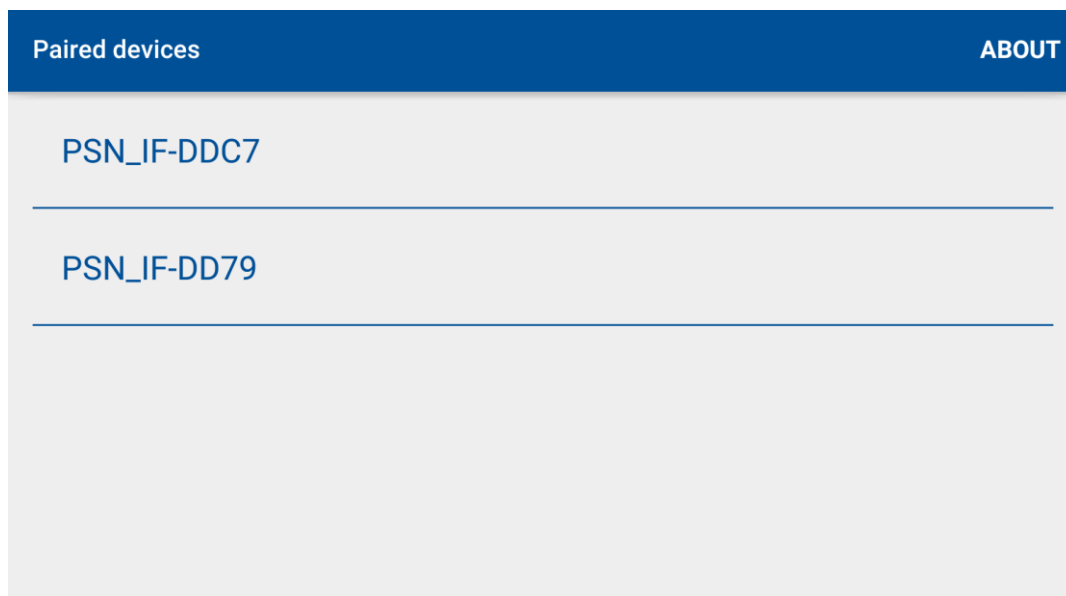
## 4. Elements of user interface

### 4.1. About dialog


If a user clicks on icon  in right top corner of the application window and selects the menu item **About**, dialog with basic information about PRIZMA will appear.

### 4.2. Selection of halogenerator, halogenerator name

It is possible to control multiple halogenerators with one Android device. Android device must be paired with all halogenerators, and communication with them must be established. Selection of one among many available halogenerators is made on the home screen (picture 4.2.1). Status of selected device will appear on the screen, and commands will be transmitted to selected device.



Picture 4.2.1

BLETOOTH name of halogenerator is displayed on the top of the screen. Name pattern is **PSN\_IF-xxxx**, where xxxx are four characters unique for each halogenerator. User can change the name by clicking on the icon .



Picture 4.2.2

### 4.3. Status line

Information about the working status of halogenerator and operation errors is presented in the text status line at the top of the screen (picture 4.3.1) and in the picture of halogenerator in the right side of the screen.




Picture 4.3.1

There are presented informations about work status of halogenerator and operation errors.

## 4.4. Program settings

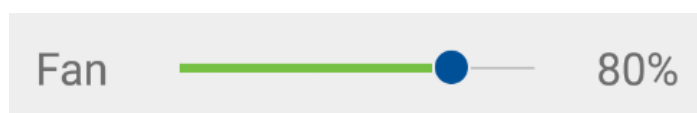
There are several controls for settings and indication of parameters of session (program settings):

- Duration of the session, from 10 to 99 minutes. To set the duration of the session click on the green number next to icon .



Picture 4.4.1

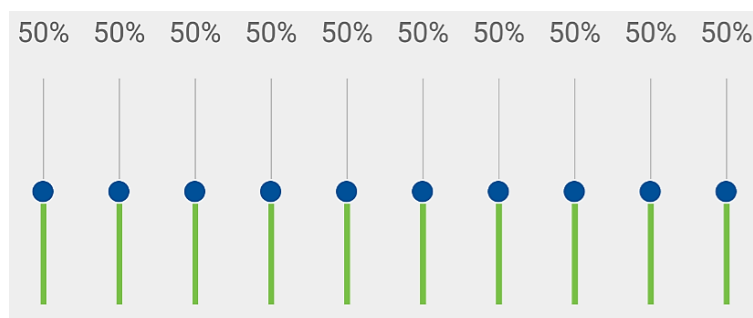
- Speed of air fan, from 10% to 100% of full speed (slider **Fan**).



Picture 4.4.2

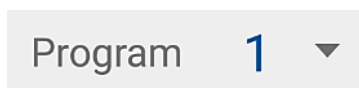
- Profile of salt dispensing, from 0% to 100% of the full capacity (equalizer).

Duration of the session is divided into ten equal time intervals. Each slider belongs to one of this ten time intervals. It is possible to set speed of salt dispensing in each of the ten intervals independently.



Picture 4.4.3

Each set of parameters can be stored in one of the nine program memories or recalled from one of the nine program memories.



Picture 4.4.4

If there is a need for more than nine programs, it is possible to save current program settings (parameters only, not program number) on Android device memory. Also, it is possible to load saved program settings from computer disk to any of the nine programs in halogenerator.



Picture 4.4.4



## 4.5. Run controls

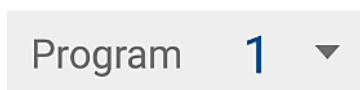
RUN, PAUSE, and STOP buttons are used to control the halogenerator and indication of operation state of halogenerator.




Picture 4.5.1

## 5. Program selection

Program selecting is enabled when session is not in progress (halogenerator is in STOP mode).



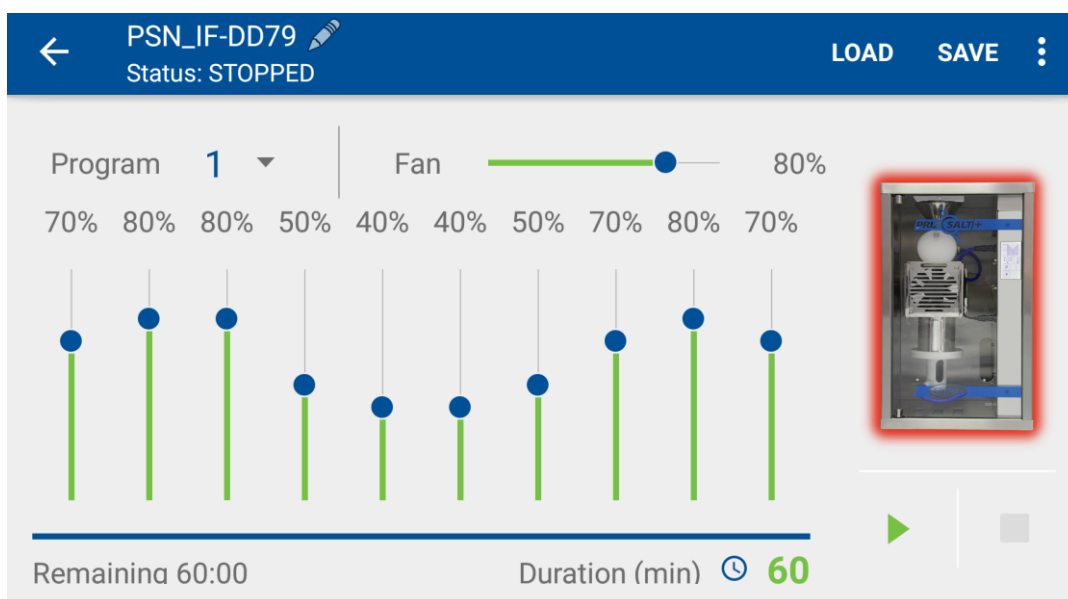
Picture 5.1

Chose desired program from 1 to 9 by clicking on icon  and current program values will be displayed on the screen.

## 6. Change of program parameters


Setting of the salt dispensing, fan speed and the duration of the session can be modified before the session (halogenerator is in STOP mode). It is not possible to change program number or duration of session after it is started.

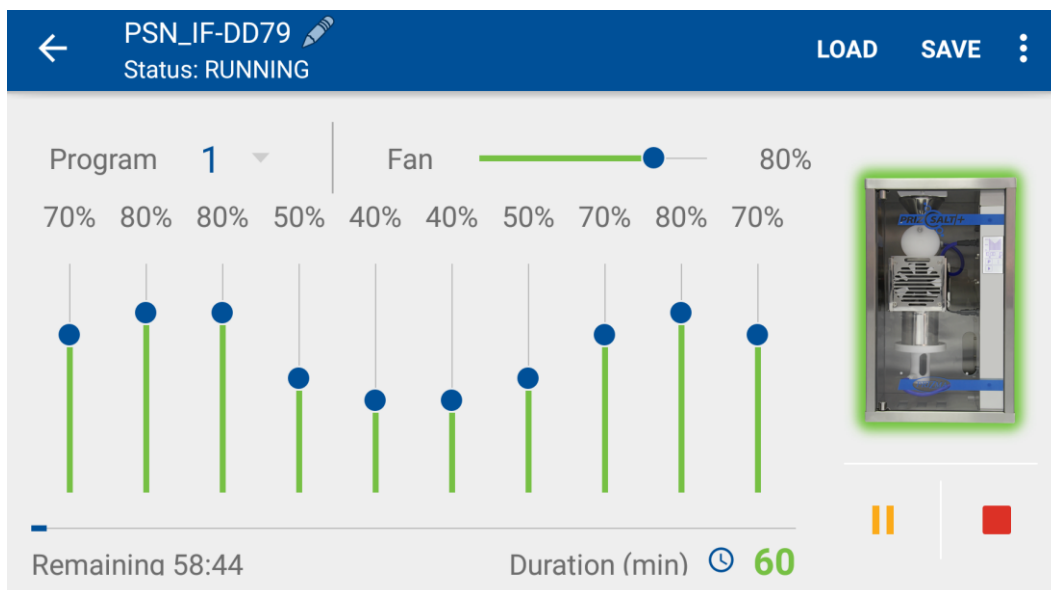
For setting salt dispensing regime move sliders to desired positions for each of the ten intervals.



Picture 6.1

## 7. Start session

To start session press **RUN** button . Computer screen will change into something as shown in picture 7.1.




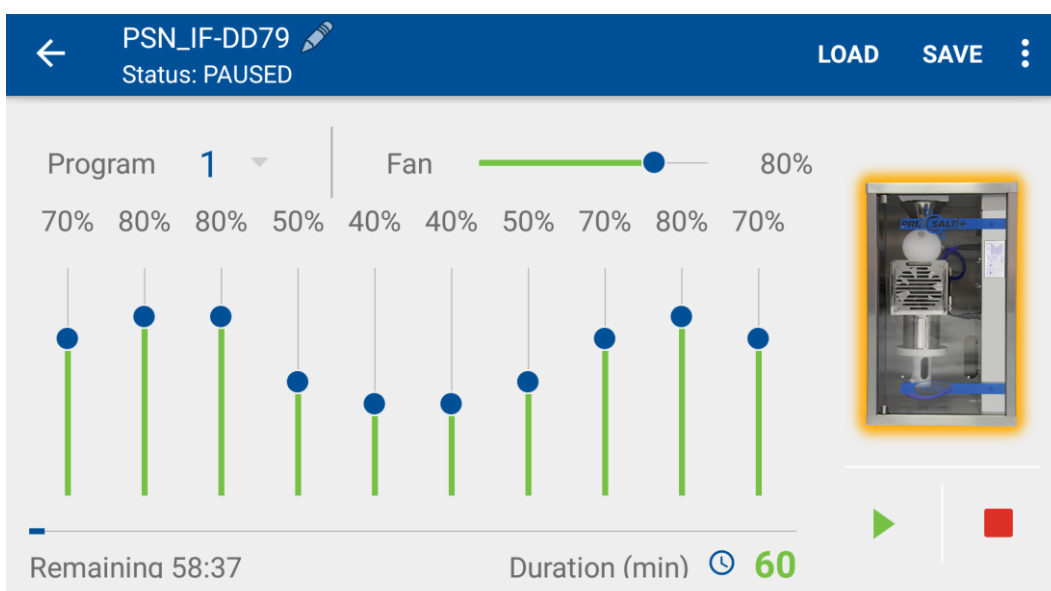
Picture 7.1

Status line will indicate RUNNING status and remaining time to the end of session will countdown.

During the RUNNING mode it is possible to change the speed of fan and profile of salt dispensing. It is not possible to change program number or duration of session after it is started.

## 8. Pause session

To pause session in progress, press **PAUSE** button . Computer screen will change to something as shown in picture 8.1.




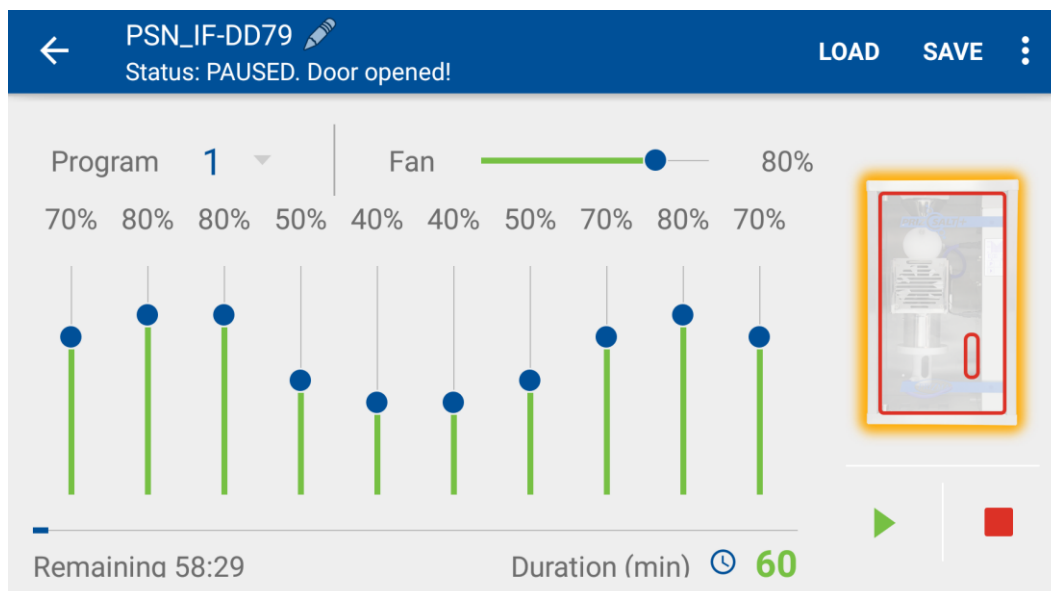
Picture 8.1

All motors will stop and remaining time of session will stop to countdown.

During the PAUSE mode it is possible to change the speed of fan and profile of salt dispensing. It is not possible to change the program number or duration of session after it has started.


If you want to continue with the session, press **RUN** button  and session will continue.

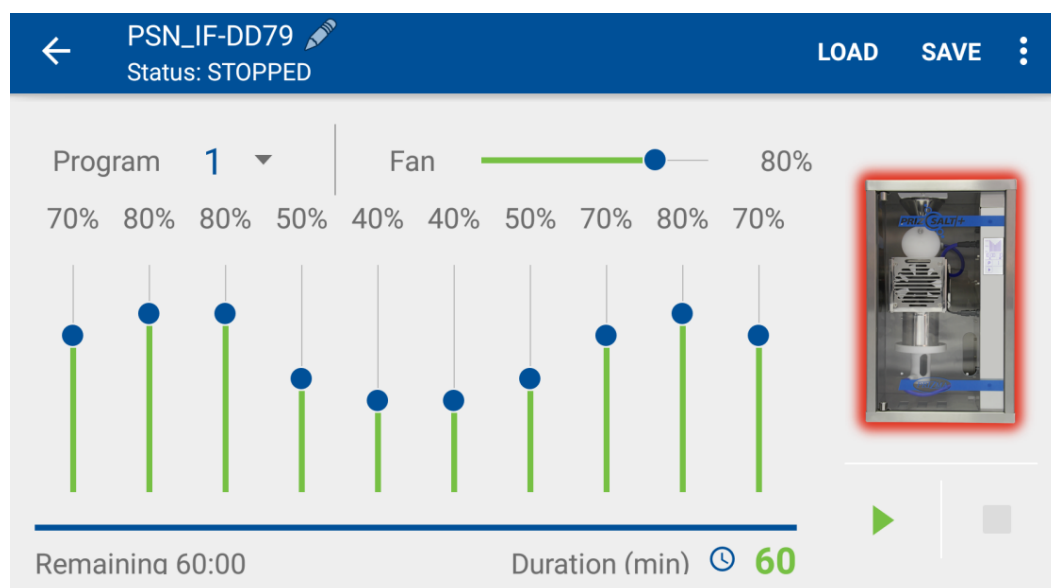
If door of halogenerator are opened during the session, halogenerator will also enter PAUSE mode (picture 8.2), but with information on status line **PAUSED. Door opened!** To continue with the session, close the door of halogenerator and press the RUN button .



Picture 8.2

## 9. Stop session

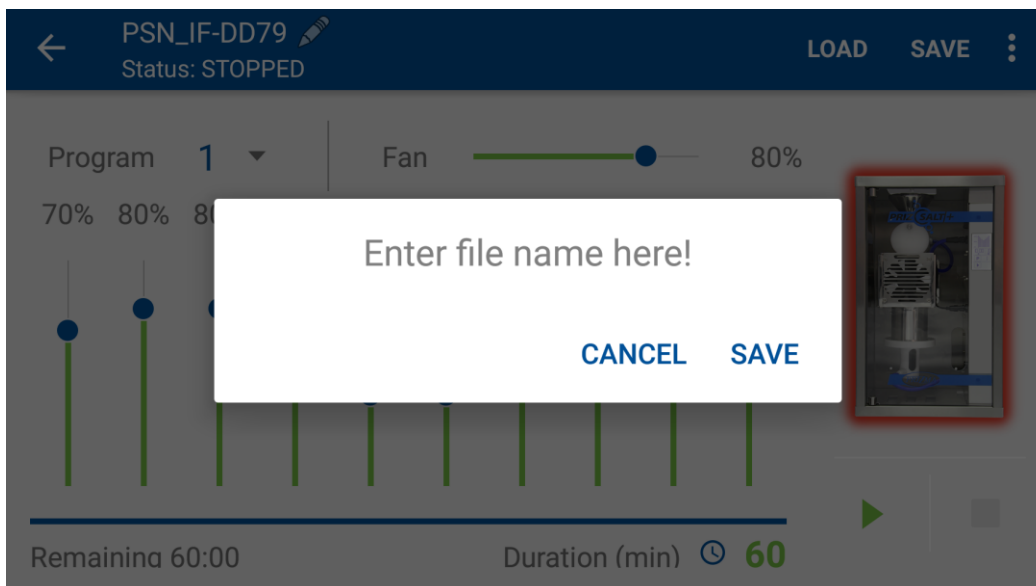
Session in progress can be interrupted at any moment by pressing the STOP button . Halogenerator will enter STOP mode, all commands on the screen will be enabled, and remaining time will be reset to the start value.



Picture 9.1

## 10. Saving program settings

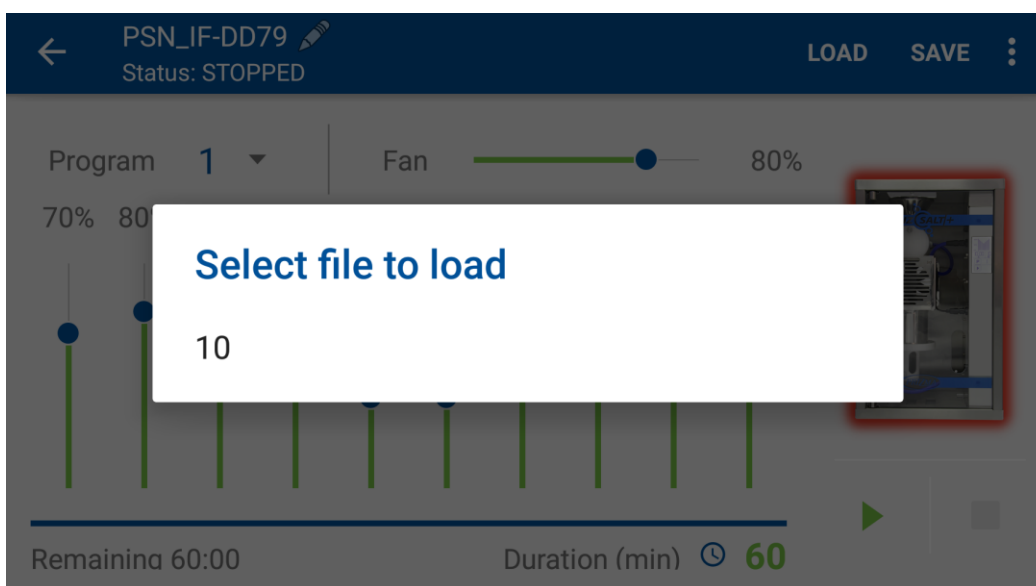
Press **SAVE** button and dialog similar to the picture 10.1 will appear. Choose program name and press the button **SAVE**. Current program settings will be saved for later use.



Picture 10.1

## 11. Loading program settings

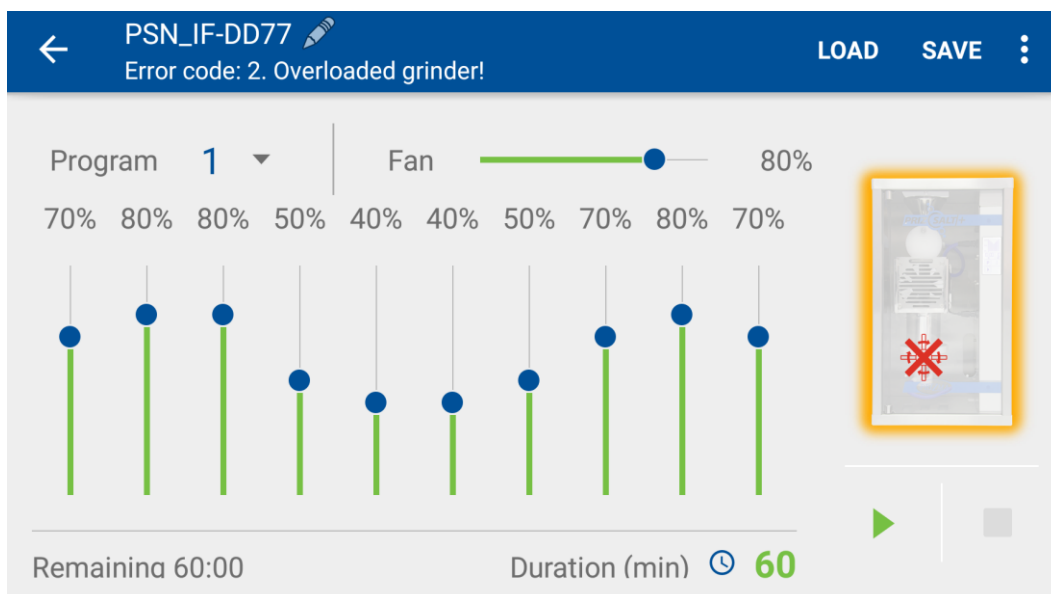
Press **LOAD** button and dialog similar to the picture 11.1 will appear. Choose desired program and press the **LOAD** button. Current program settings will be replaced by selected content.



Picture 11.1

## 12. Indication of errors

If during the session occurs overload of grinder, halogenerator will enter STOP mode and picture similar to 12.1 will appear on Android device screen. **Error code: 2. Overloaded grinder!** will appear on status line.



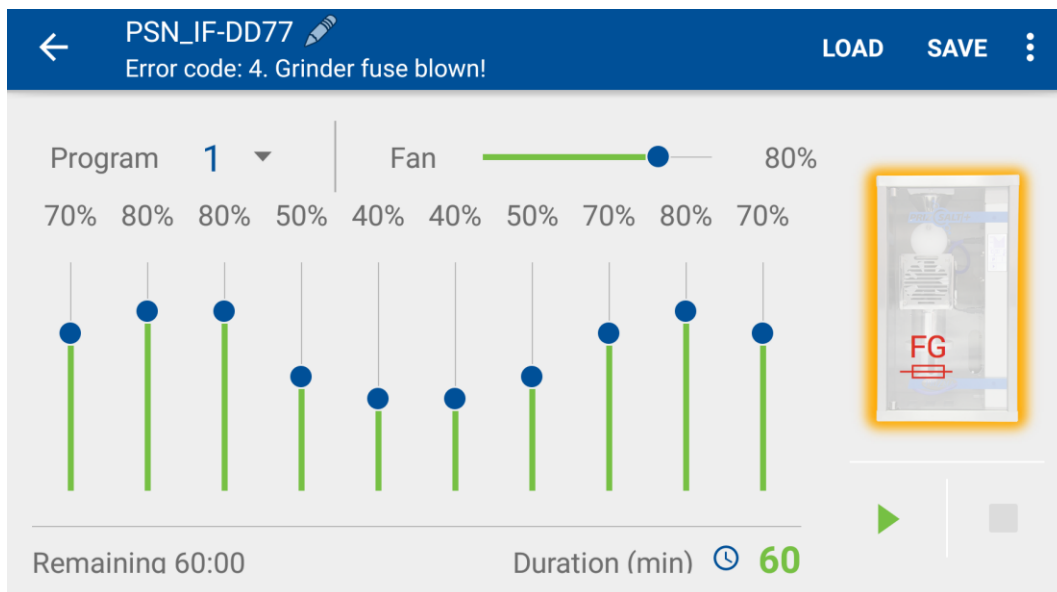
Picture 12.1

If during session occurs overload of doser, halogenerator will enter STOP mode and picture similar to 12.2 will appear on Android device screen. **Error code: 3. Overloaded doser!** will appear on status line.



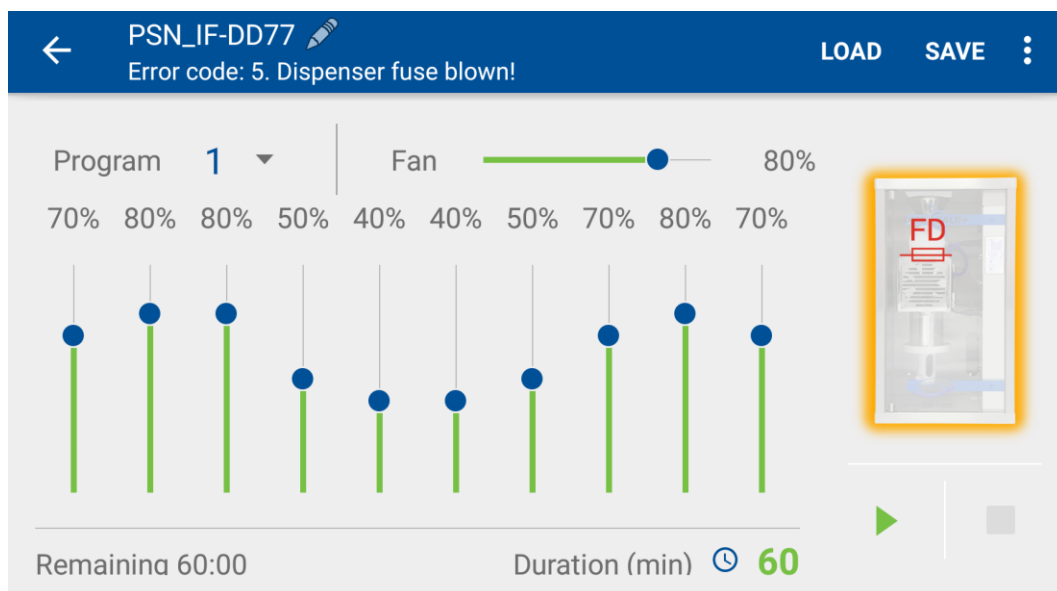
Picture 12.2

If during session occurs grinder fuse blown, halogenerator will enter STOP mode and pictures similar to 12.3 will appear on Android device screen. **Error code: 4. Grinder fuse blown!** will appear on status line.




Picture 12.3

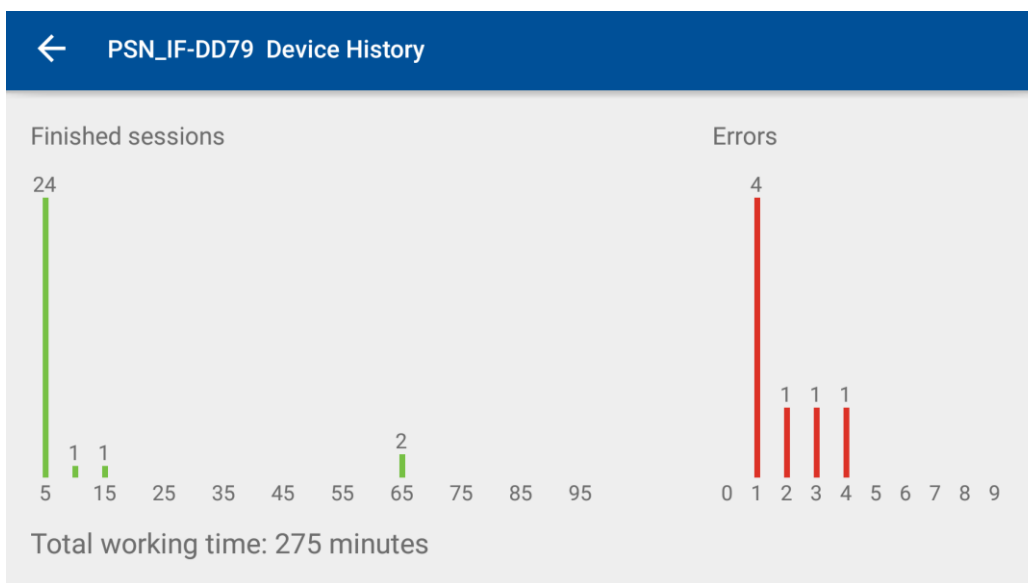
If during session occurs grinder fuse blown, halogenerator will enter STOP mode and pictures similar to 12.4 will appear on Android device screen. **Error code: 5. Dispenser fuse blown!** will appear on status line.



Picture 12.4

### 13. Retrieving statistics data

Open the menu by clicking icon  in the top right corner of the application window. Click on the menu item **Device History** and picture 13.1. will appear.



Picture 13.1

Frame **Finished sessions** contains data about the number of elapsed sessions of specific duration. Duration of sessions is divided into intervals 10 minutes long. Number next to the duration is the count of the elapsed sessions of that duration. Counts can only advance and there is no mean to reset counters or to set their value to some specific value. There are 20 counters for 20 different time intervals.

*Example: User conducted 24 sessions 5 minutes long, 1 session 10 minutes long, 1 session 15 minutes long and 2 sessions 65 minutes long. Values of mentioned counters will be as shown in picture 13.1.*

*This way it is possible to know the number of sessions of specific duration and total work time of halogenerator since the moment of production.*

If user calculates difference of present counter values and values recorded in some past time moment, he will get number of performed session between that past moment and present time.