



PRIZMA

MS Windows Program "PRIZMA LINK"

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

v 1.0

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1. Introduction and requirements

Program "PRIZMA LINK" is intended for wireless remote control and monitoring of halogenerators made by PRIZMA.

Program is running under operating system MS WINDOWS 8.

It is assumed that user has enough knowledge to start computer, navigate through menus and visual controls and can start programs.

Hardware requirement is that host computer has BLUETOOTH adapter, and that computer is paired with halogenerator.

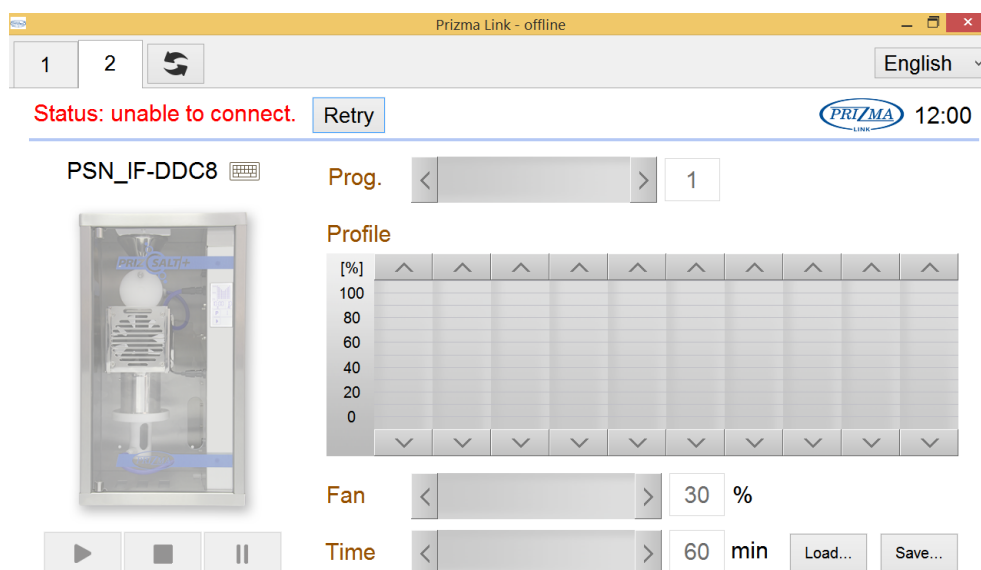
Manual pairing must be done. Halogenerators have Bluetooth name like **PSN_IF-xxxx** (xxxx are four characters unique for each halogenerator of PRIZMA), and pairing code is **1234**.

2. Revision list

Version	Date	Description of changes
1.0	Nov 2015.	Initial version

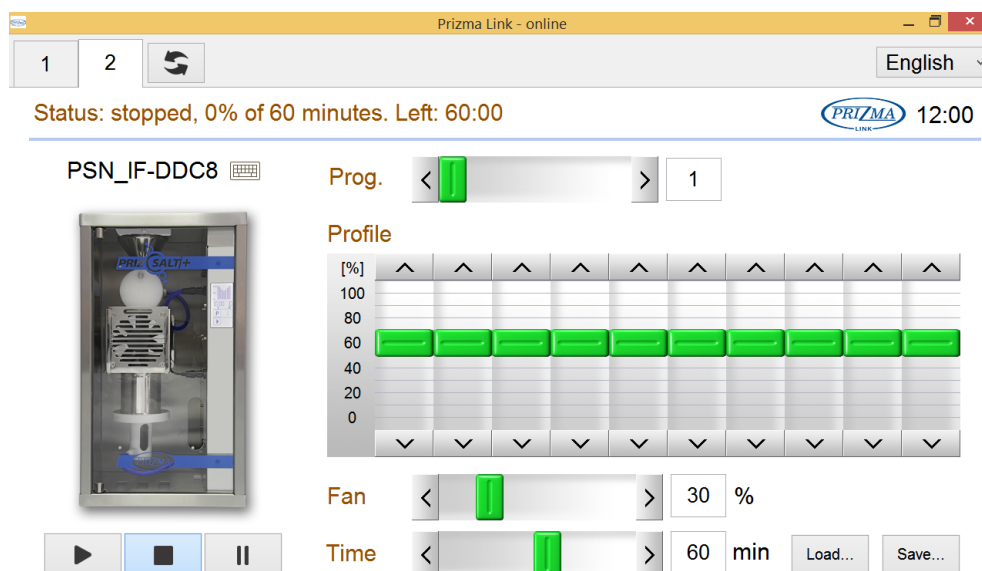
3. Establishing connection to halogenerator

1. Install program PRIZMA LINK, provided by PRIZMA.
2. Turn halogenerator ON.
3. Turn on Bluetooth on MS Windows device, find halogenerator with Bluetooth name like **PSN_IF-xxxx** and pair them. Pairing code is **1234**.
4. Find icon “PRIZMA LINK” and start program by clicking the icon.
5. After start, program tries to establish connection with paired halogenerator device. If connection cannot be established, Picture 3.1 will appear. Check if halogenerator is turned on and press button **Retry**, next to Status info. Program will try again to establish connection with halogenerator.



Picture 3.1

6. If connection is established, picture similar to 3.2 will appear on computer screen.

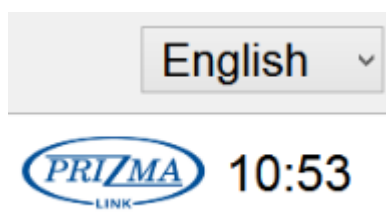


Picture 3.2

4. Elements of user interface

4.1. Selection of language, time of day, about dialog

All controls necessary for monitoring and control of halogenerator are located on one screen.



Picture 4.1.1

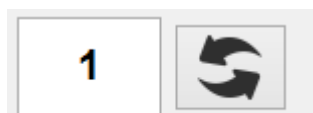
Drop down menu in right-up corner is for selection of language used in program. User can select preferred language by clicking on menu and selecting desired language.

Bellow language selection menu is time of the day.

If user clicks on icon **PRIZMA LINK**, dialog with basic information about program will appear.


4.2. Selection of halogenerator, communication reestablishment

It is possible to control multiple number of halogenerator with one computer. In this configuration computer must be paired with all halogenerators, and communication with them must be established. Purpose of numbered tab book is selection of one among many available halogenerators. Status of selected device will appear on the screen, and commands from computer will be transmitted to selected device. If there is only one halogenerator paired with computer, there will be only one tab numbered as **1**. If there are multiple halogenerators, selection is made by selecting desired tab number.



Picture 4.2.1

BLETOOTH name of halogenerator associated with selection tab is displayed bellow tab number. Pattern of name is **PSN_IF-xxxx**, where xxxx are four characters unique for each halogenerator. This text is read only.

PSN_IF-DD7F 

Picture 4.2.2

Next to numbered tabs is button for communication reestablishment. If communication to selected halogenerator is broken for any reason, computer will try to reconnect after this button is pressed.

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 left side of the screen.

Status: stopped, 0% of 10 minutes. Left: 10:00

Picture 4.3.1

4.4. Program settings

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

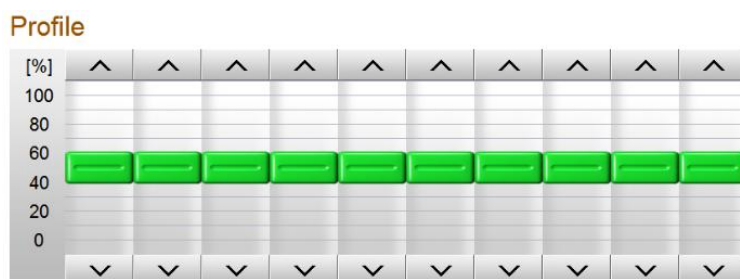
- Duration of session, from 10 to 99 minutes (slider **Time**).



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



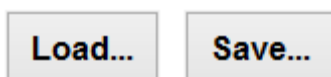
- Profile of salt dispensing, from 0% to 100% of full capacity (equalizer **Profile**).
Duration of session set by slider **Time** is divided in ten equal time intervals. Each slider belongs to one of this ten time intervals. It is possible to set speed of salt dispensing in each of ten intervals independently.



Each set of parameters can be stored in one of nine program memories or recalled from one of nine program memories (slider **Prog.**).



If there is need for more than nine programs, it is possible to save current program settings (parameters only, not program number) in file on computer disk, under name you prefer. Also, it is possible to load saved program settings from computer disk to any of nine programs in halogenerator.



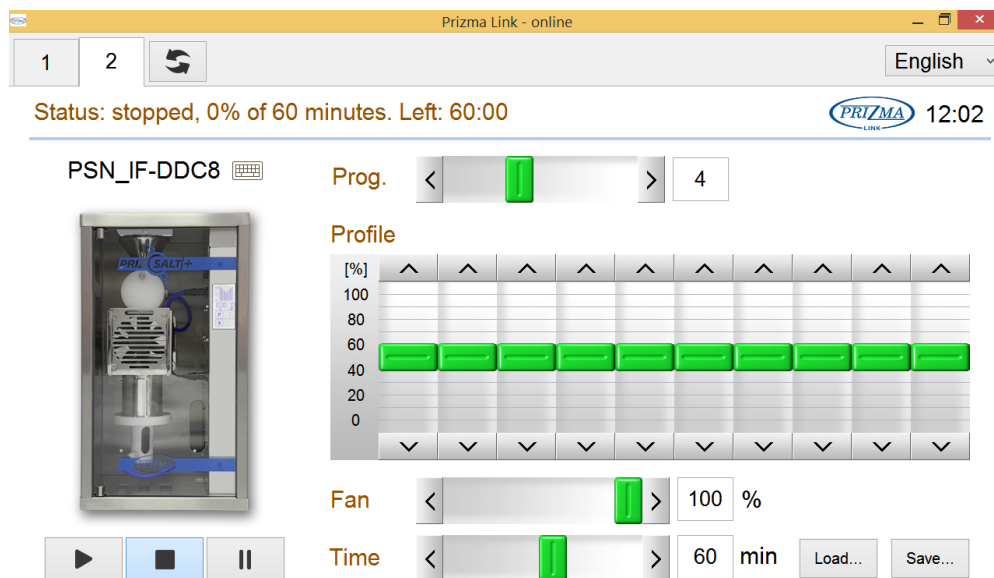
4.5. Run controls

There are RUN, STOP, and PAUSE buttons for control of halogenerator and indication of operation state of halogenerator.



5. Selection of program

Slider **Prog.** is enabled when session is not in progress (halogenerator is in STOP state). Move slider to desired position from 1 to 9. Program will display current program values on the computer screen.

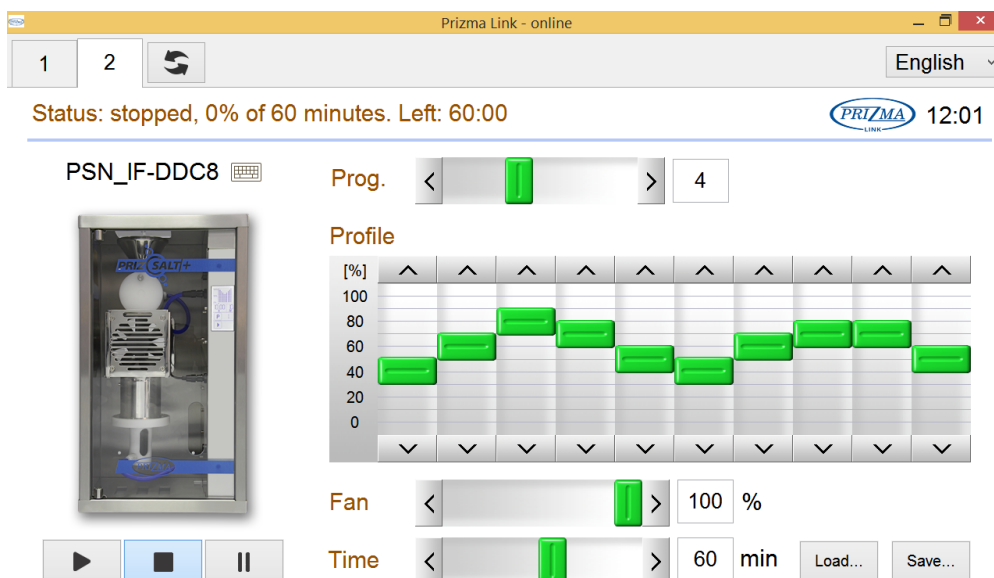


Picture 5.1

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.

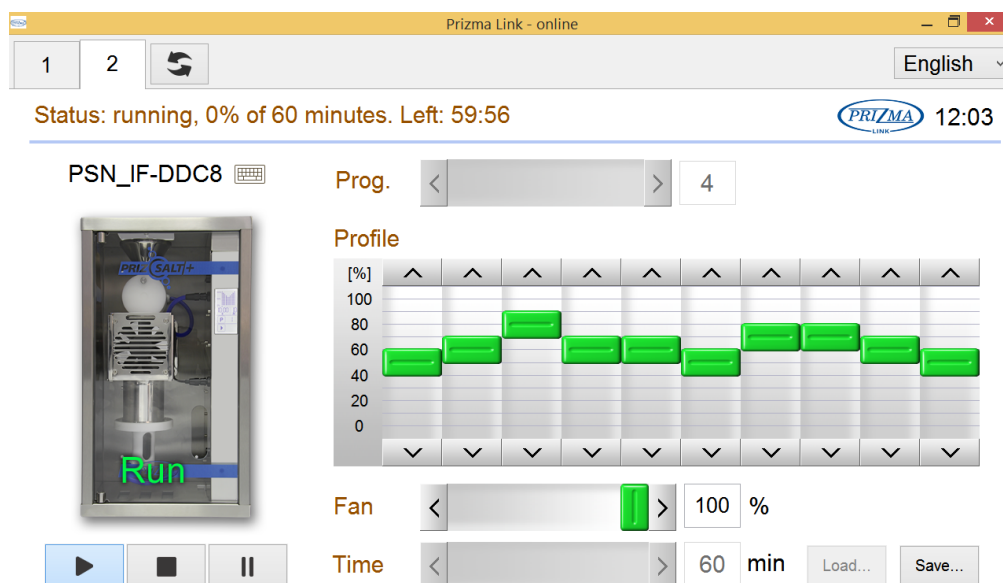
For setting salt dispensing regime move sliders to desired positions for each of the ten intervals.



Picture 6.2

7. Start session

To start session, press **RUN** button . Computer screen will change to something like picture 7.1.




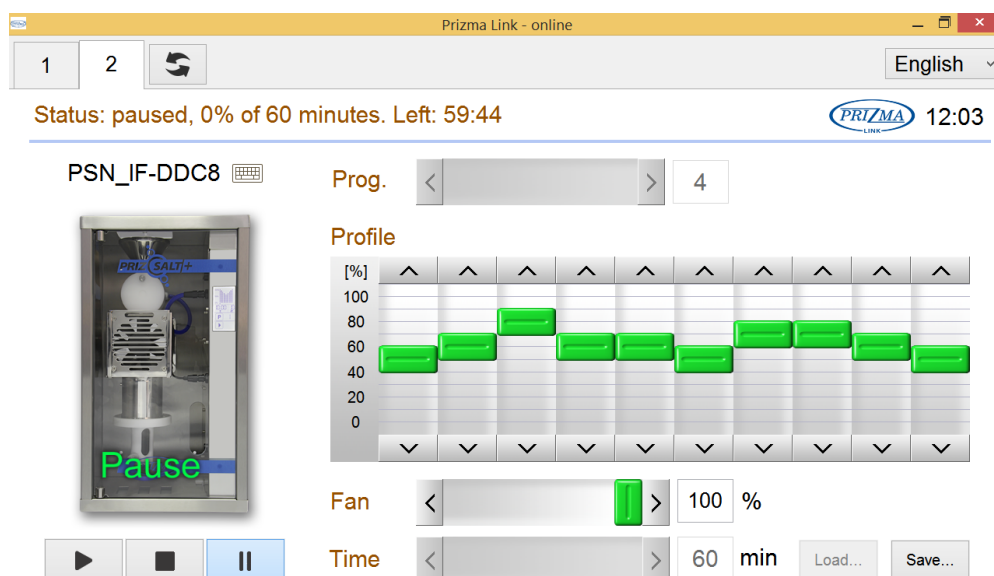
Picture 7.1

Picture of halogenerator will indicate RUN state. Status line will indicate RUN status and remaining time to the end of session.

During RUN state it is possible to change 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 like picture 8.1.



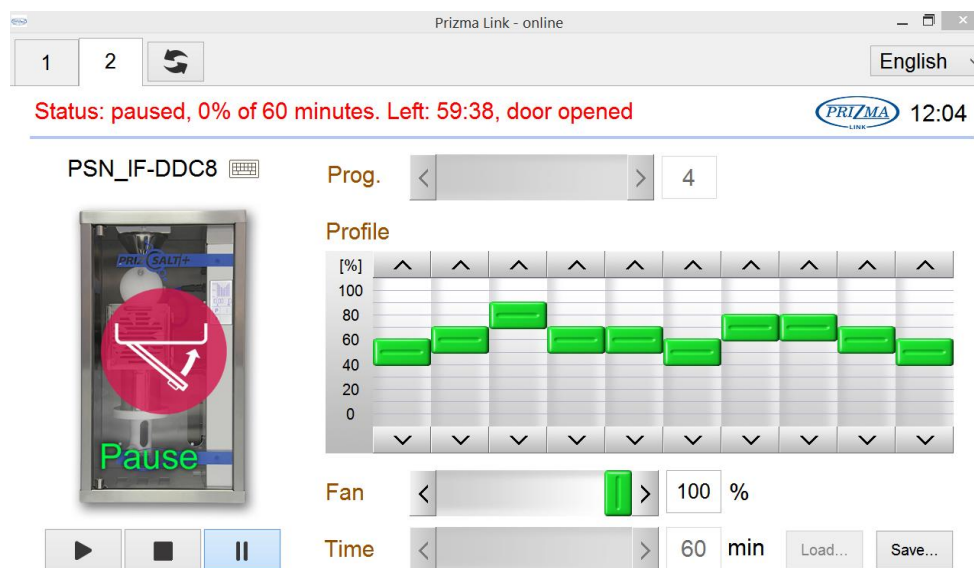
Picture 8.1

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

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


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

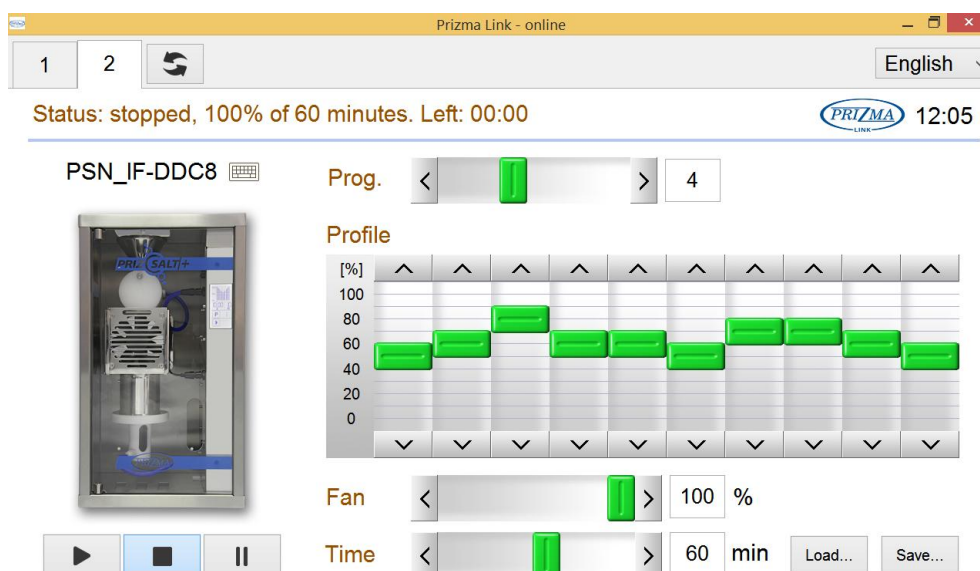
If door of halogenerator are opened during session, halogenerator will also enter PAUSE state (picture 8.2). To continue session, close the door of halogenerator and press RUN button.



Picture 8.2

9. Stop session

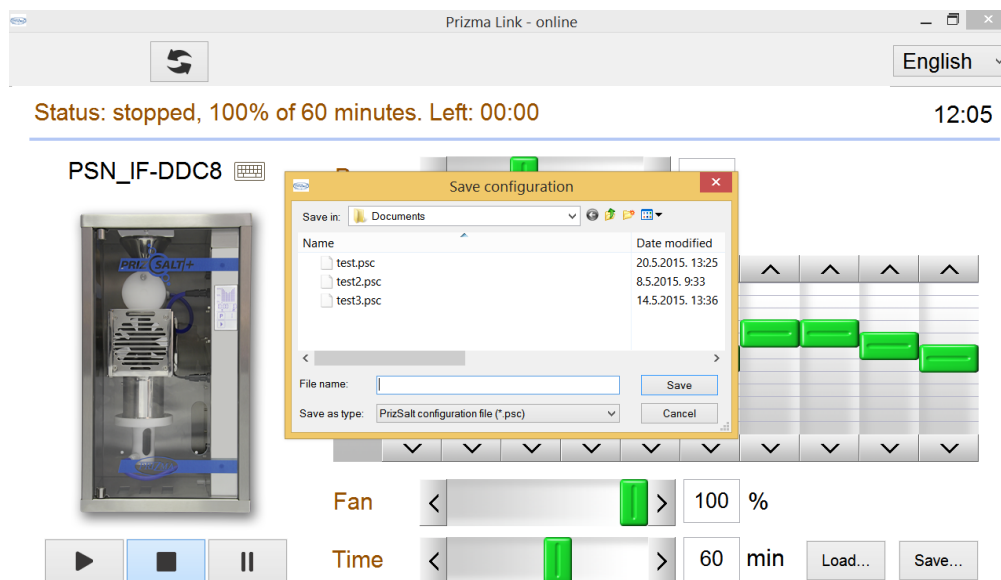
Session in progress can be interrupted at any moment by pressing of STOP button . Halogenerator will enter STOP state, all commands on the computer screen will be enabled, and remaining time will be reset to the start value.



Picture 9.1

10. Saving program settings

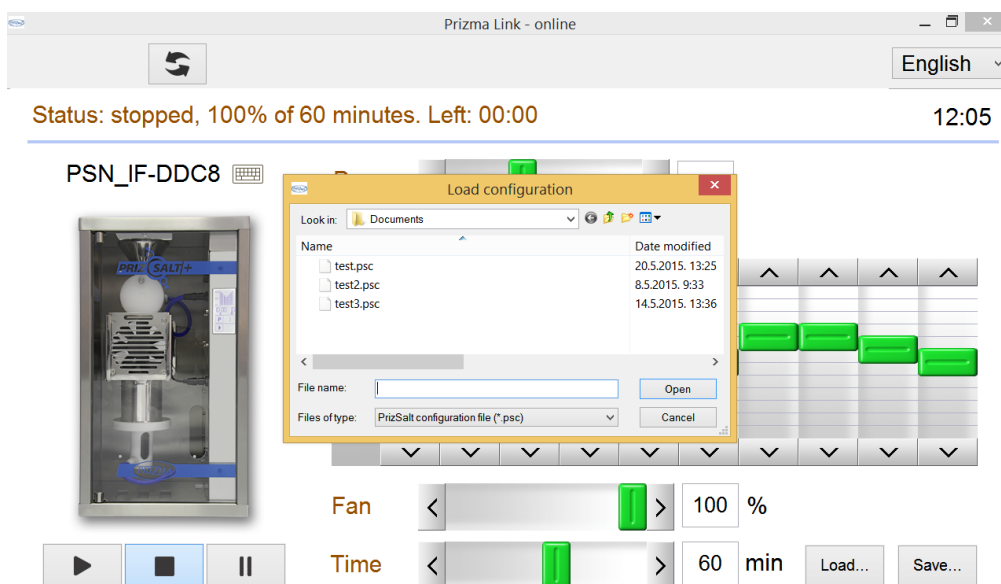
Press **Save...** button and dialog similar to picture 10.1 will appear. Choose location and name of file you want and press button **Save**. Current program settings will be saved on disk for later use.



Picture 10.1

11. Loading program settings

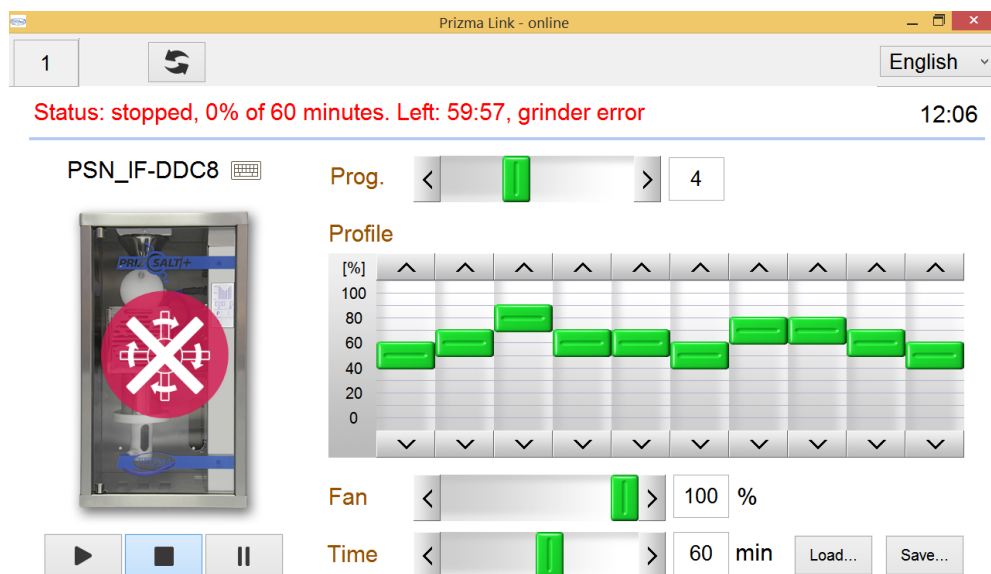
Press **Load...** button dialog similar to picture 11.1 will appear. Choose location and name of file you want and press button **Open**. Current program settings will be replaced by contents of selected file.



Picture 11.1

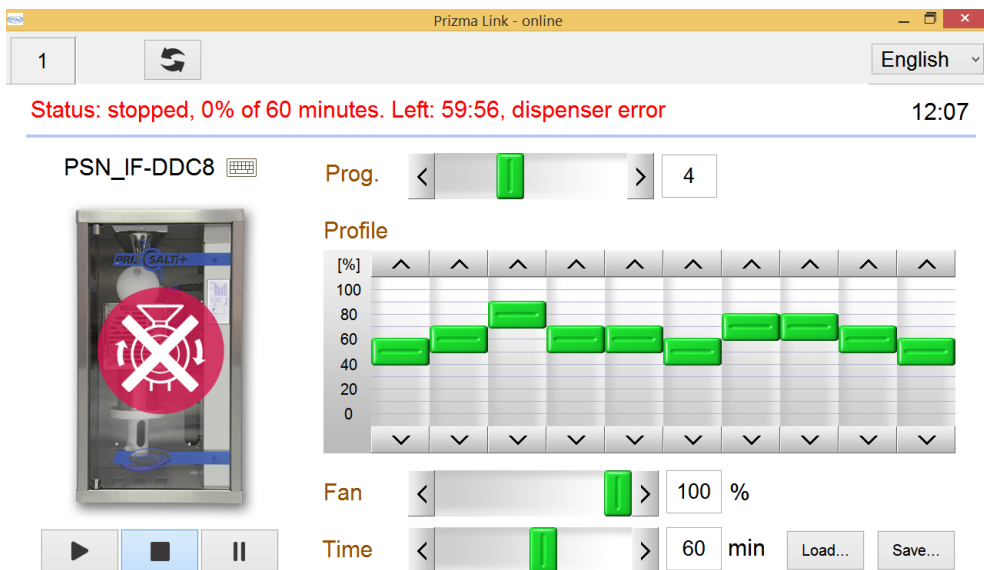
12. Indication of errors

If during session occurs overload of grinder, halogenerator will enter STOP state, picture similar to 12.1 will appear on the computer screen and **grinder error** will appear in status line.



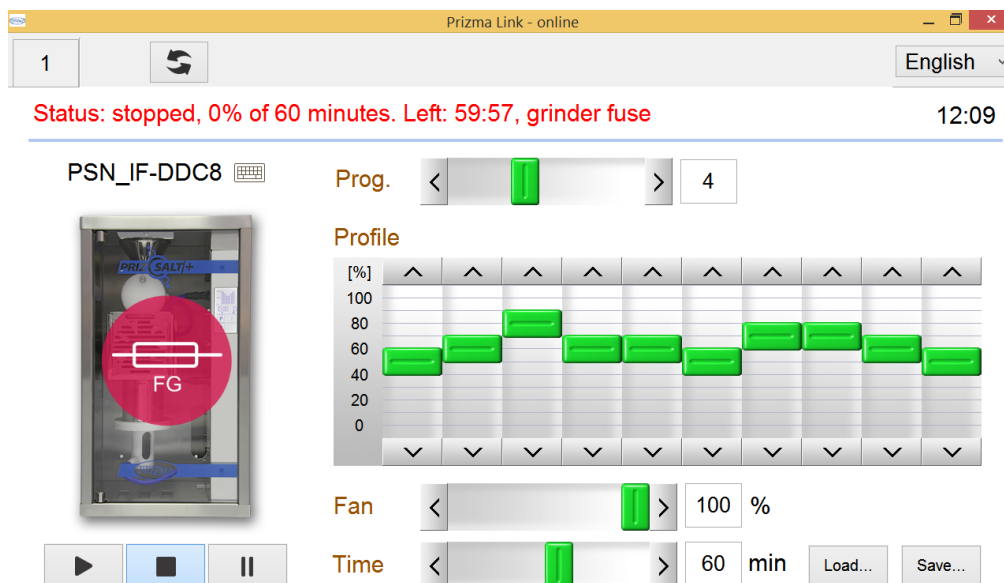
Picture 12.1

If during session occurs overload of dispenser, halogenerator will enter STOP state, picture similar to 12.2 will appear on the computer screen and **dispenser error** will appear in status line.



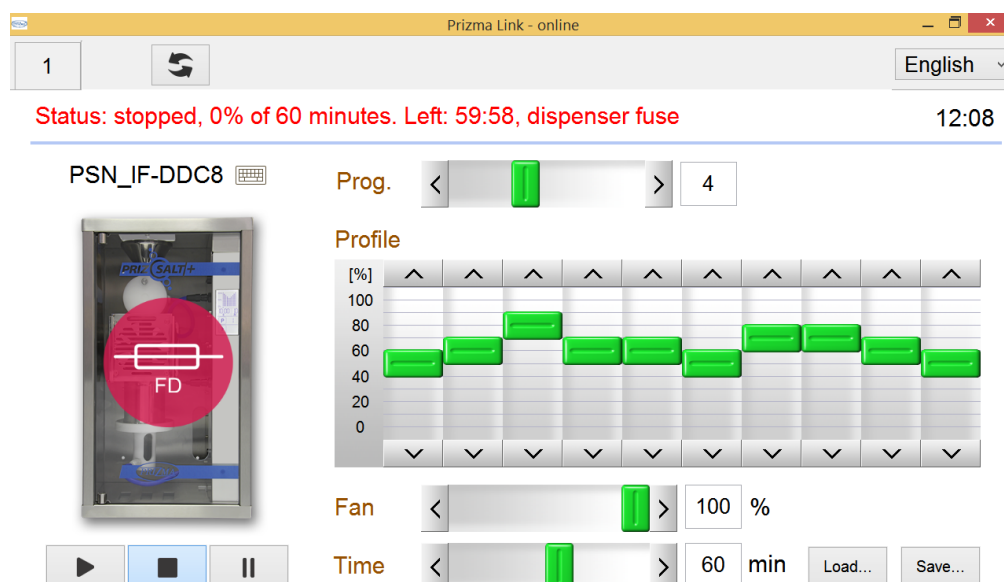
Picture 12.2

If during session occurs blow of grinder fuse, halogenerator will enter STOP state, picture similar to 12.2 will appear on the computer screen and **grinder fuse** will appear in status line.



Picture 12.3

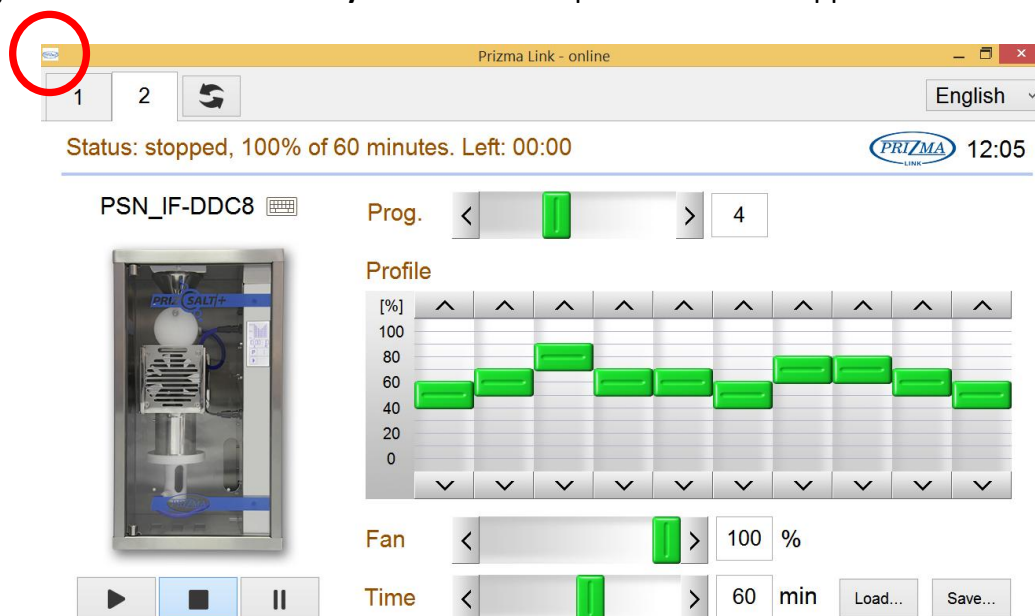
If during session occurs blow of dispenser fuse, halogenerator will enter STOP state, picture similar to 12.4 will appear on the computer screen and **dispenser fuse** will appear in status line.



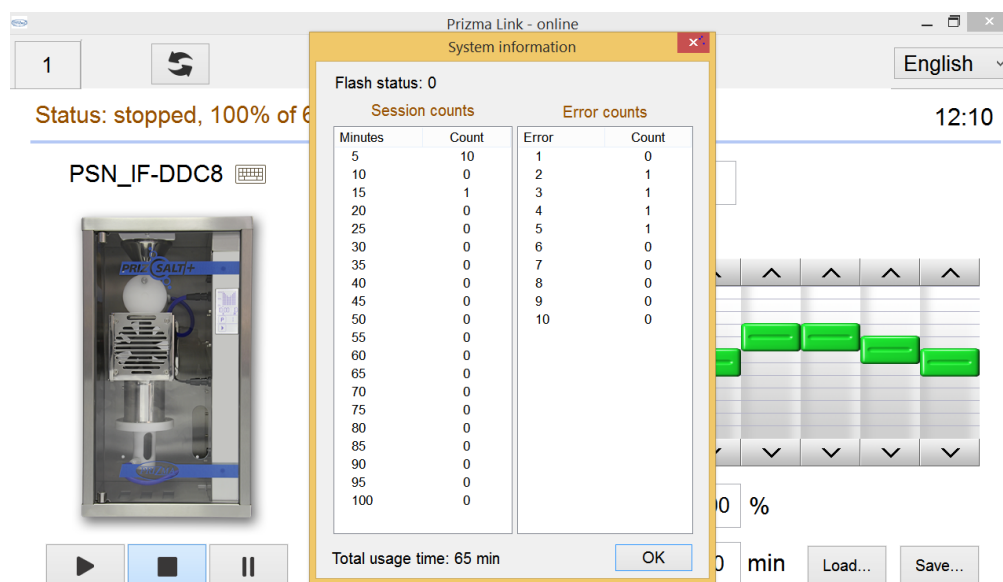
Picture 12.4

13. Retrieving statistics data

Open the menu by clicking left top corner of program window (inside red circle on picture 13.1). Click on the menu item **System info...** and picture 13.2. will appear.



Picture 13.1



Picture 13.2

Line **Flash status** can have three values 0, 1 or 2. There are multiple copies of statistics data in not volatile flash memory. If Flash status is 0, all memory banks are OK. If Flash status is 1, one of memory banks is bad, but statistic can be recovered. If Flash status is 2, all memory banks are bad, statistics data are not stored properly and electronics board must be replaced.

Frame **Session counts** contain data about number of elapsed sessions of specific duration. Duration of sessions is divided in intervals of 5 minutes long. Number next to the duration is count of 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. Session counters works like domestic electricity or gas consumption meter, except there is not one but 20 counters for 20 different time intervals.

Example: Suppose at some moment of time counter for interval 20-25 minutes has value 17 and counter for interval 45-50 minutes has value 123. Suppose after that moment user conducted 7 session 22 minutes long and 15 sessions 48 minutes long. New values of mentioned counters will be 24 (20-25 minutes) and 138 (40-45 minutes).

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