ProDevice

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OPERATING MANUAL

ADMIN software tool package for ProDevice ASM120
version 10.0

Table of contents

1. Introduction

The subject of this document are the functional description and the operating manual of the software tool intended for operation and configuration of ProDevice ASM120 series degaussers.

It is recommended to read and understand this documentation before installing and commissioning the software.

The ProDevice ASM120 Admin software package jest is a tool for operation of the ProDevice ASM120 series degaussers. The package allows setting up selected key functional parameters, activation and deactivation of blockades and generation of reports from the device's performance.

Unlike other such devices, ASM120 enables programming the permissible number of data removal cycles, after which the device is automatically locked. The customers who rent the degausser can remotely charge the device for a certain number of removal cycles. This is ensured by the innovative PPMS (Pre-Paid Managemen System) technology: the degausser is rented and programmed for a pre-defined volume of data removal, and the enterprise which rents out the hardware can always charge the degausser (via a special application) with an additional, certain number of storage media erasing cycles. This way the user can freely choose the final number of cassettes or disks to be demagnetised. The user can also remove data on their own, at any place and any time. This allows avoiding complicated procedures which usually involve admitting a third-party company to remove data from the customer's media.

Implementation of PPMS allows qualifying ProDevice ASM120 as a MaaS (Machine as a Service).

2. SOFTWARE AND HARDWARE REQUIREMENTS

The following lists the minimum software requirements for the work station operating components which must be met before installing and launching the *ProDevice ASM 120 Admin* software.

- Microsoft Windows® XP Service Pack3, or Microsoft Windows® Vista.
- Microsoft NET Framework® Client Profile version 4.0 or higher, or Microsoft Framework® version 4.0 or higher.

3. INSTALLATION OF THE SOFTWARE PACKAGE

Install the *ProDevice ASM120 Admin* software package by launching the installer package with the *installer file*. The procedure opens the installer package interface window *(Fig. 3.1. The start window of the ProDevice ASM120 Admin software installer)*

Fig. 3.1. The start window of the ProDevice ASM120 Admin software installer

Select *Next* and the installer will guide the user through the successive steps of the installation process.

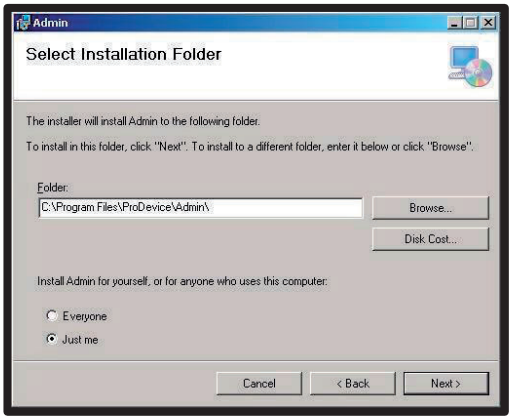


Fig. 3.2 Disk path selection window for the software package

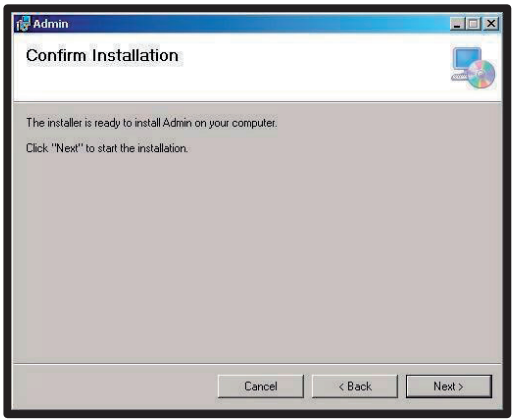


Fig. 3.3 Settings confirmation window for the software installation process

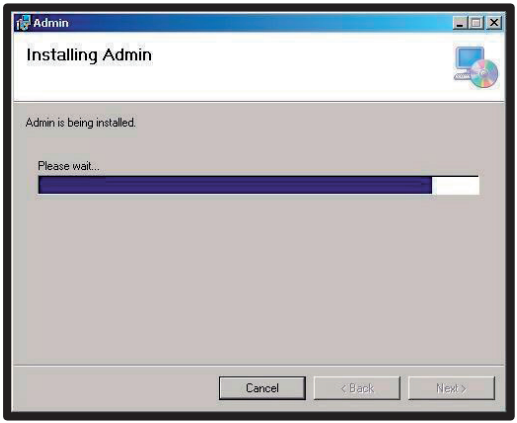


Fig. 3.4 Product installation progress window

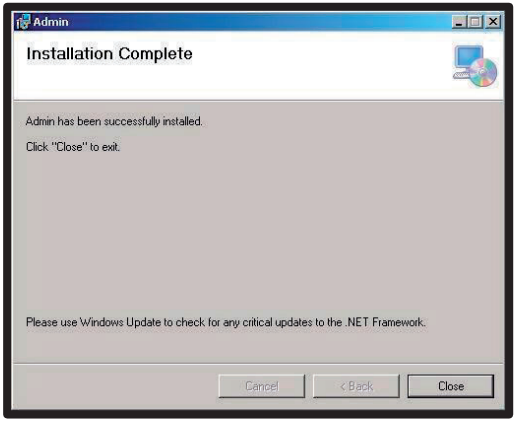


Fig. 3.5 Software installation finish window

NOTE!

After installing the software package, it is recommended to check that the .NET Framework component of the workstation OS is up to date with the latest version. Installing the .NET Framework package version 4.0 or higher may require installing additional operating system components, as required by Microsoft Corp.

If the user does not customise the installation, the *ProDevice ASM120 Admin* software package is installed in the following default location: **C:\Program Files\ProDevice\Admin**.

Installation of the package creates the quick launch shortcut on the work station's desktop. The software shortcut is also installed in the *Start Menu* of the work station operating system.

Fig. 3.6 The Start Menu of the operating system with the shortcut to the ProDevice ASM120 Admin package

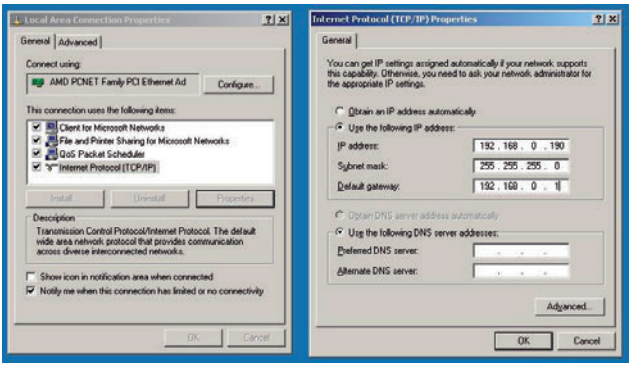
The software delivered with the device is intended for the particular serial number of the device.

4. LAUNCHING THE SOFTWARE

Before connecting the device physically to the computer, you need to properly configure the network adapter settings. Go to Control Panel -> Network Connections.

Right-click on the local connection icon and select Properties. Then go to the TCP/IP connection Properties. Check as shown in the figure (IP Settings) "Use the following IP address" and enter the new settings: IP Address - 192.168.0.190, Subnet mask - 255.255.255.0, Default gateway - 192.168.0.1.

Click OK to confirm changes after entering the data. Only now will the computer correctly communicate with the device (over the Ethernet cross-cable included with the product).



NOTE: The device communicates with the computer over port 5001 by default. This port is not usually blocked on the computer; otherwise contact this computer's Administrator.

Start the *ProDevice ASM120 Admin* software by launching the start file accessed via the program shortcut which is displayed after the successful

installation. The program can also be accessed via the Programs menu on the workstation.

Launching the software displays the user interface screen on the workstation monitor *(Fig. 4.1 ProDevice ASM120 Admin software start screen).*

The software will automatically attempt to connect with the device. This process will be seen in the message *"Trying to connect!"* in the status line at the bottom of the software interface. The connection test is repeated until correct data transmission is established.

Once correct communication with the device has been established, the software status line displays the following message: *"Connection established!"*

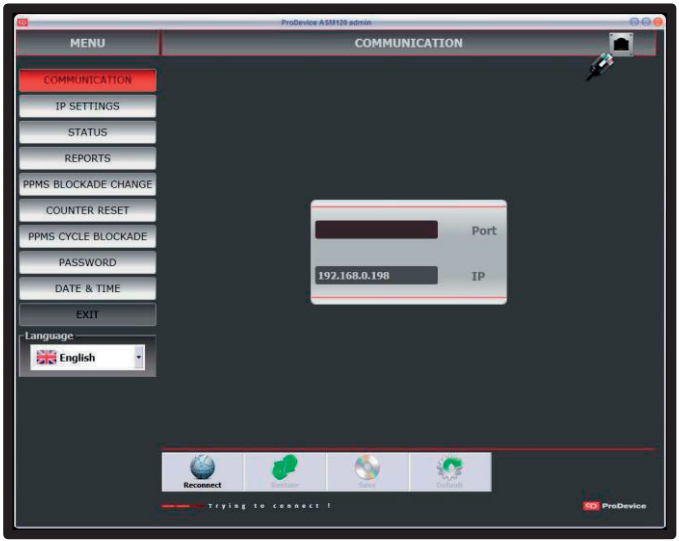


Fig. 4.1 The start screen of the ProDevice ASM120 Admin software interface

The software user interface is divided into the following functional areas:

- **MENU** – this area features the function buttons which access other function screens of the software.
- **Function screen** – this area displays the individual parameters of the software functionalities.
- **Function screen buttons** – this area displays the sets of buttons, which depend on the current function screen context, which enable operations allowed on the actual function screen.

5. WORKING WITH THE SOFTWARE

5.1.1. MENU

After launching the software, the user can access a set of function buttons grouped in the Menu area. The buttons display specific function screens of the software.

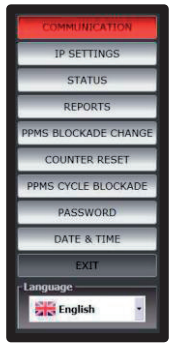


Fig. 4.1.1. Software Menu

The Menu area features the following buttons:

- **Communication** – displays the function screen for setting up the network connection with the device.
- **IP settings** – displays the function screen which allows changing the device IP address.
- **Status** – displays the device status information.
- **Reports** – displays the function screen on which reports from the device audit can be generated and loaded.
- **PPMS Authorisation –** allows setting up and configuring the device blockade.
- **Counter reset –** displays the function screen in which the resettable cycle counter of the device can be reset.
- **PPMS cycle blockade –** allows setting up and configuring the device blockade.
- **Password** – displays the function screen which allows changing the device password.
- **Date & time –** allows configuring the date and time on the device.
- **Exit –** closes the *ProDevice ASM120 Admin* software.
- **Language –** the drop-down menu which allows selecting the software interface language.

5.1.2. COMMUNICATION

The function screen for establishing and configuring up the network connection with the device. *Fig. 4.1.2.1 Communication function screen.*

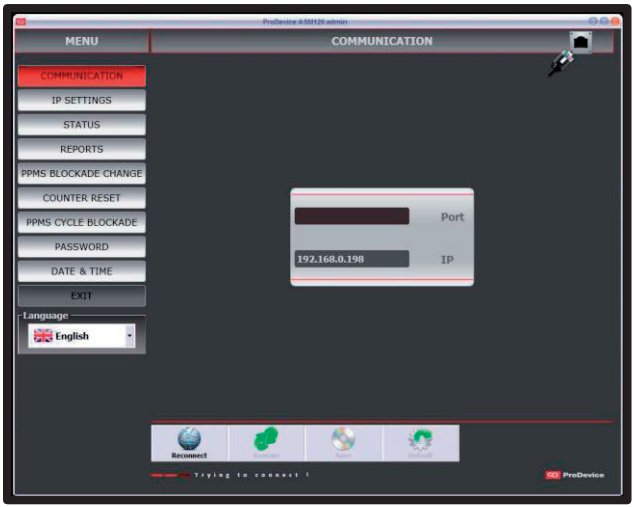


Fig. 4.1.2.1 Communication function screen.

The screen has fields with the following properties:

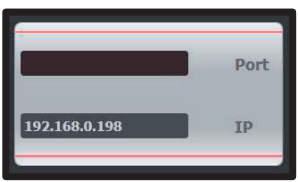


Fig. 4.1.2.2 The Communication screen fields

- **Port** – this field displays the current TCP/IP port over which the peripheral device communicates. The user cannot edit this field.
- **IP** – this field displays the IP address of the device with which communication will be established. The user can edit this field.

The screen has a set of function buttons which act as follows:

Fig. 4.1.2.3 The Communication screen function buttons.

- **Reconnect** – this button initiates the connection with the device which has the IP stated in the *IP* field over the TCP/IP port in the *Port* field.
- **Restore** – this button loads the IP address stored in the software settings.
- **Save** – this button saves the current IP address displayed in the IP field in the software settings.
- **Default** – this button restores the default IP address of the device. The address is permanently stored in the software settings. The user cannot edit it. The setting value is: *192.168.0.198*

5.1.3. REPORTS

The functionality of the software tool allows generating reports of the device performance. The Administrator can generate a simplified report from the data read from the device; they can also generate an encrypted file with the device diagnostic data.

The report includes a list of events recorded by the device. Each event has a defined access level which defines the users who can see the event in the report.

The following list presents the events with the listing of user groups who can see the events in the report:

- **Set resettable counter** – the device received the command to set the resettable counter; an additional parameter stores the new counter value; access level: Service.
- **Set device password** – the device received the command to change the Device Password; an additional parameter stores the new password; access level: Administrator.
- **Set blockade counter** – the device received the command to change the blockade counter; an additional parameter stores the new blockade counter; access level: Administrator.
- **Device blockade** – the device notified the user that new cycles cannot be done (the blockade cycle counter was activated); access level: Administrator.
- **Unathorised access attempt** – the device received a command with incorrect password authorisation; an additional parameter stores the password which was used during the attempt; access level: Administrator.
- **IP address reset** – the device detected the IP address reset executed with the key at the TCP/IP connector; the default IP address was restored; access level: Customer.
- **Set IP address** – the device received the command to change the IP address; an additional parameter stores the new IP address; access level: Customer.

- **Cycle interrupted by open tray** – the device detected that the tray was opened when the capacitors were being charged; access level: Customer.
- **Cycle interrupted by power off** – the device detected that the power was turned off when the capacitors were being charged; an additional parameter stores the timestamp of the power outage; access level: Customer.
- **Inspection required** – the device reports that the periodic inspection is necessary; access level: Customer.
- **Inspection acknowledgement** – the device received the command to set the inspection counter; an additional parameter stores the new inspection counter value; access level: Customer.
- **Cycle** – the device recorded a full cycle; an additional parameter stores the information about the triggered magnetic pulse peak value; access level: Customer.
- **No pulse** – the device did not record the magnetic pulse despite the trigger – servicing is required; access level: Customer.
- **Set the non-resettable counter** – the device received the command to set the non-resettable counter; this resets all other counters; access level: Service.
- **Cycle interrupted by high temperature** – the device detected overtemperature and stopped working; access level: Customer.
- **Set RTC** – the device received the command to change the date and time; an additional parameters stores the new date and time; access level: Customer.

The report generated from the data read from the device can be saved to an encrypted binary file. The diagnostic file generated by the device Administrator is also encrypted. The report can also be saved to a file with the *.pdf extension.

The report generated from the device performance also includes information about the completed removal cycles. The specific columns of the full report include: the sequential number, the timestamp of the completed cycle start; the completed cycle number from the non-resettable counter, the measured value of the erasing cycle in the form of magnetic induction in the area in which the erased element is placed.

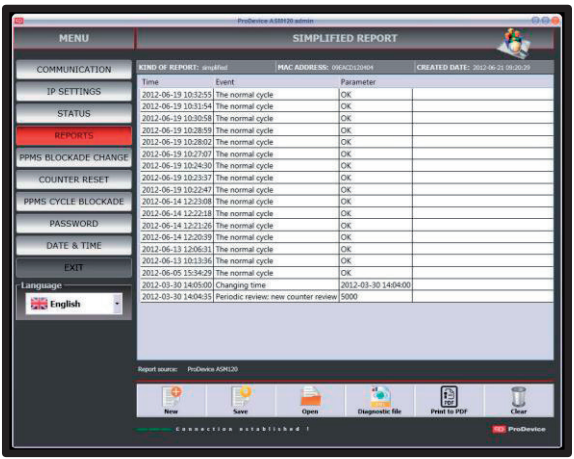
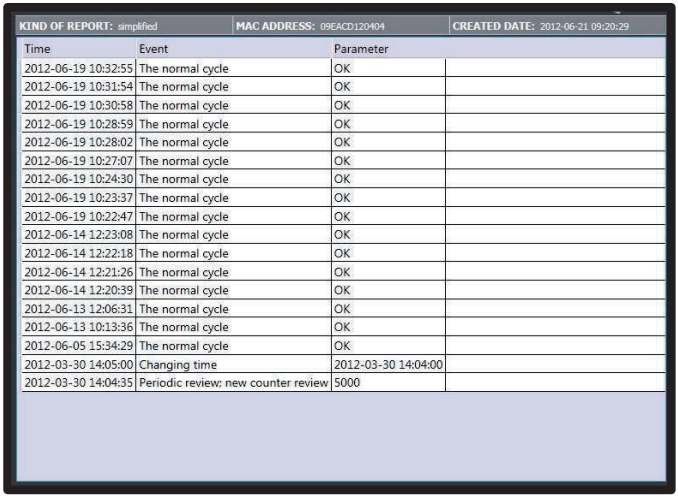


Fig. 4.1.3.1 Simplified Report function screen

The screen area presents a table which lists the recorded events read from the device.



KIND OF REPORT: simplified	MAC ADDRESS: 09EACD120404	CREATED DATE: 2012-06-21 09:20:29
Time	Event	Parameter
2012-06-19 10:32:55	The normal cycle	OK
2012-06-19 10:31:54	The normal cycle	OK
2012-06-19 10:30:58	The normal cycle	OK
2012-06-19 10:28:59	The normal cycle	OK
2012-06-19 10:28:02	The normal cycle	OK
2012-06-19 10:27:07	The normal cycle	OK
2012-06-19 10:24:30	The normal cycle	OK
2012-06-19 10:23:37	The normal cycle	OK
2012-06-19 10:22:47	The normal cycle	OK
2012-06-14 12:23:08	The normal cycle	OK
2012-06-14 12:22:18	The normal cycle	OK
2012-06-14 12:21:26	The normal cycle	OK
2012-06-14 12:20:39	The normal cycle	OK
2012-06-13 12:06:31	The normal cycle	OK
2012-06-13 10:13:36	The normal cycle	OK
2012-06-05 15:34:29	The normal cycle	OK
2012-03-30 14:05:00	Changing time	2012-03-30 14:04:00
2012-03-30 14:04:35	Periodic review: new counter review	5000

Fig. 4.1.3.2 The list table of events read from the device

The screen has a set of function buttons which act as follows:

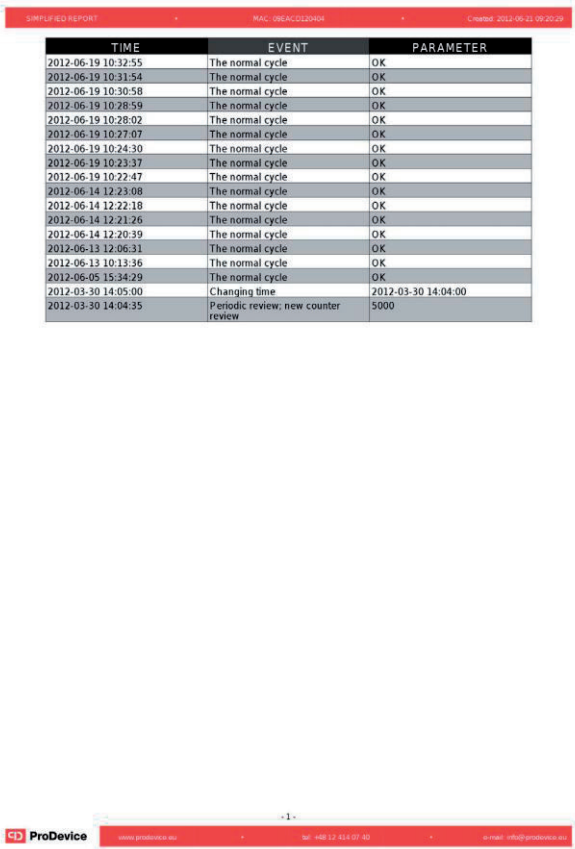
Fig. 4.1.3.3 The Simplified Report screen function buttons

- **New** – this function button allows generating a new report of the events recorded by the device. The button remains disabled until correct communication is established with the device.
- **Save** – this button saves the current report to an encrypted file. Clicking the button opens the system dialogue window to select the path for the report file.

- **Open** – this button allows opening encrypted report files. Clicking the button opens the system dialogue window to select the path of the report file.
- **Diagnostic file** – this button allows generating and saving encrypted diagnostic files of the device. Clicking the button opens the system dialogue window to select the path for the diagnostic file. The button remains disabled until correct communication is established with the device.
- **Print to PDF** – this button generates the report in the *.pdf file format. The opened dialogue window allows naming the new report and selecting the disk path to which the file will be saved. Generating reports in the *.pdf file format does not require installing any tools for PDF creation. The button remains disabled until correct communication is established with the device.
- **Clear** – the button clears the function window with the listed report data. The button does not clear the events list in the connected ProDevice ASM120 device. The button remains disabled until correct communication is established with the device.

The following is an example report generated as a *.pdf file. The report header contains the information about the report type (Full Report), the MAC address of the device from which the report was generated and the full date of generation.
The information given in the report are presented in a table. The table columns read:

- the full date and time (from the device clock) at which the event was recorded;
- the cycle number (from the device non-resettable counter) set in the device when the event was recorded;
- the recorded event type;
- the values of the parameters correlated to that event. The parameter type depends on the recorded event type.



SIMPLIFIED REPORT + MAC: 08EACD120404 + Created: 2012-06-21 09:20:29

TIME	EVENT	PARAMETER
2012-06-19 10:32:55	The normal cycle	OK
2012-06-19 10:31:54	The normal cycle	OK
2012-06-19 10:30:58	The normal cycle	OK
2012-06-19 10:28:59	The normal cycle	OK
2012-06-19 10:28:02	The normal cycle	OK
2012-06-19 10:27:07	The normal cycle	OK
2012-06-19 10:24:30	The normal cycle	OK
2012-06-19 10:23:37	The normal cycle	OK
2012-06-19 10:22:47	The normal cycle	OK
2012-06-14 12:23:08	The normal cycle	OK
2012-06-14 12:22:18	The normal cycle	OK
2012-06-14 12:21:26	The normal cycle	OK
2012-06-14 12:20:39	The normal cycle	OK
2012-06-13 12:06:31	The normal cycle	OK
2012-06-13 10:13:36	The normal cycle	OK
2012-06-05 15:34:29	The normal cycle	OK
2012-03-30 14:05:00	Changing time	2012-03-30 14:04:00
2012-03-30 14:04:35	Periodic review; new counter review	5000

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*Fig. 4.1.3.4 A report on the device performance printed from a *.pdf file*

5.1.4. IP SETTINGS

The function screen which allows changing the current IP address of the device. Fig. 4.1.4.1 Degausser IP function screen

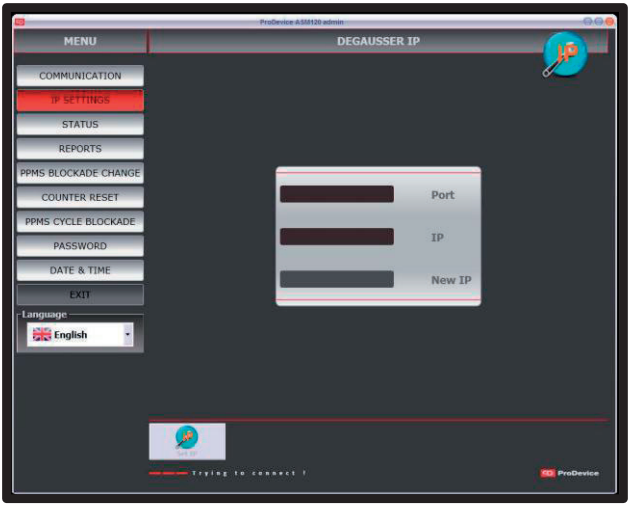

Fig. 4.1.4.1 Degausser IP function screen

The screen has fields with the following properties:

Fig. 4.1.4.2 The Degausser IP function screen fields

- **Port** – this field displays the current TCP/IP port over which the peripheral device communicates. The user cannot edit this field.
- **IP** – this field displays the current IP address of the device with which communication has been established. The user cannot edit this field.
- **New IP** – this field is used to enter the new IP address to be assigned to the device. The user can edit this field. The entered field value is validated. Until the IP address is entered in the valid format, the error icon is displayed next to the field.

The screen has a set of function buttons which act as follows:

Fig. 4.1.4.3 The Degausser IP screen function button

- **Set IP** – this button allows setting the IP address on the device which was entered in the New IP field.

The device IP can be set only when correct communication has been established with the device. The new IP address is initialised after reconnecting the device, which is communicated in the dialogue window displayed directly after chaning the IP address.

5.1.5. STATUS

The function screen which displays the information on the status parameters of the device.

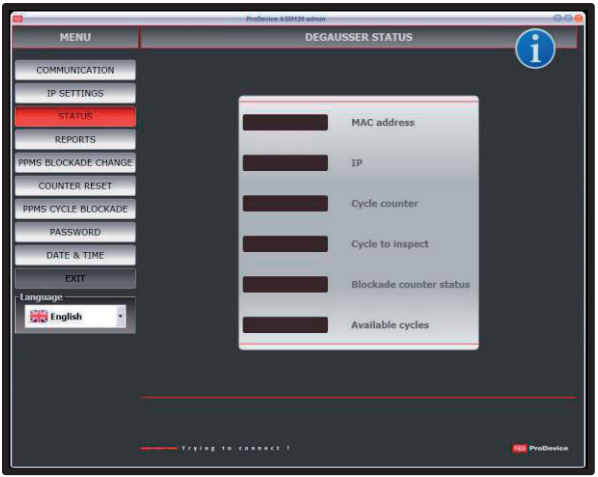

Fig. 4.1.5.1 Degausser Status function screen

It contains the following fields:

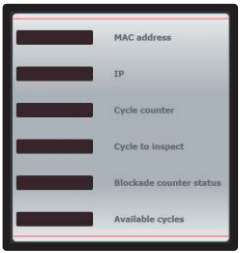

Fig. 4.1.5.2 The Degausser Status fields

- **MAC address** – this field displays the current MAC address of the device.
- **IP** – this field displays the current IP address of the device.
- **Cycle counter** – this field displays the current value of the device Cycle Counter.
- **Cycle to inspect** – this field displays the current cycle count remaining to the next presumed service inspection of the device.
- **Blockade counter status** – this field gives the current status of the device cycle blockade.
- **Available cycles** – this field displays the number of removal cycles which can be made by the device with the current configuration settings.

The user cannot directly edit none of those fields. The screen has no function buttons.

5.1.6. BLOCKADE CHANGE

The software function screen which enables the user to create the *Blockade Authorisation File* from the encrypted *Key File* generated by the device user with the Authorisation screen functionality. The *Blockade Authorisation File* with the changed cycle counter value is created from the Key File. The *Blockade Authorisation File which has been created this way is used to change the device cycle counter state during the Authorisation procedure.*

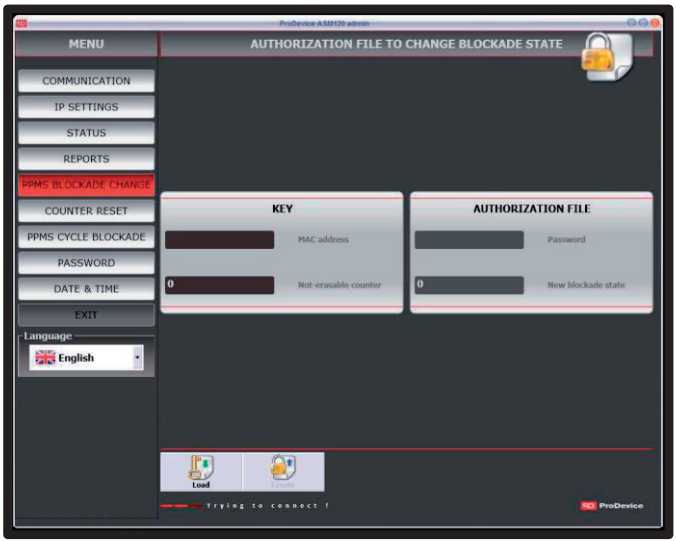

Fig. 4.1.6.1 Authorisation file to change blockade state function screen

The screen features fields with the following properties. The fields are grouped in two areas.

Key field group

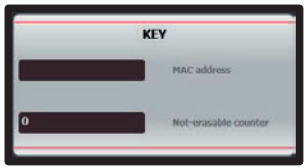

Fig. 4.1.6.2 The Authorisation file to change blockade state screen fields

- **MAC address** – this field contains the MAC address of the device for which the Key File was loaded. The user cannot edit this field.
- **Non-erasable counter** – this field displays the value of *the non-erasable counter* for which the *Key File* was loaded. The user cannot edit this field.

Authorisation file field group

Fig. 4.1.6.3 The Authorisation file to change blockade state screen fields

- **Password** – this field displays the password of the device for which the Blockade Authorisation File will be created. This password is the password read from the *Key File*. The user cannot edit this field.

- **New blockade state** – this field contains the new value of the device *cycle counter* to be saved in the created Authorisation File. The user can edit this field.

The screen has a set of function buttons which act as follows:

Fig. 4.1.6.4 The Authorisation file to change blockade state screen function buttons

- **Load** – this button loads the *Key File*. Clicking the button opens the system dialogue window to select the path of the *Key File*. Selecting a file with an incorrect format displays the dialogue window with the incorrect file format alert. Loading a file with the correct format updates the MAC address, password and device non-erasable counter fields of the device for which the *Key File* was generated.
- **Create** – this button generates the *Blockade Authorisation File*. The button remains disabled until successful loading of the *Key File* of the device for which the Blockade Authorisation File will be generated. Clicking the button opens the system dialogue window to select the path of the new Blockade Authorisation File.

REMOTE CHANGE OF THE BLOCKADE – STEP BY STEP INSTRUCTIONS

If the Customer uses the preset limit of removal cycles, they should do the following steps:

1. In ProDevice ASM120 ADMIN, enter the PPMS BLOCKADE CHANGE menu.
2. Click the LOAD button.
3. After selecting the location of the authorisation file received from the customer, select the file and click OPEN.
4. In the AUTHORISATION FILE field, define NEW BLOCKADE STATE with the number of cycles needed by the customer.

5. Click the CREATE button in the PPMS BLOCKADE CHANGE tab.
6. When the dialogue window opens, save the generated file to disk.
7. Send the generated file to the customer.

5.1.7. RESET ERASABLE COUNTER

The function screen which allows resetting the *erasable counter* of the device. The erasable counter counts the cycles completed by the device from the last reset of the counter status. In order to reset the counter, you must known the password of the device with the counter to be reset. The device password is shown in the appropriate field of the RESET ERASABLE COUNTER screen.

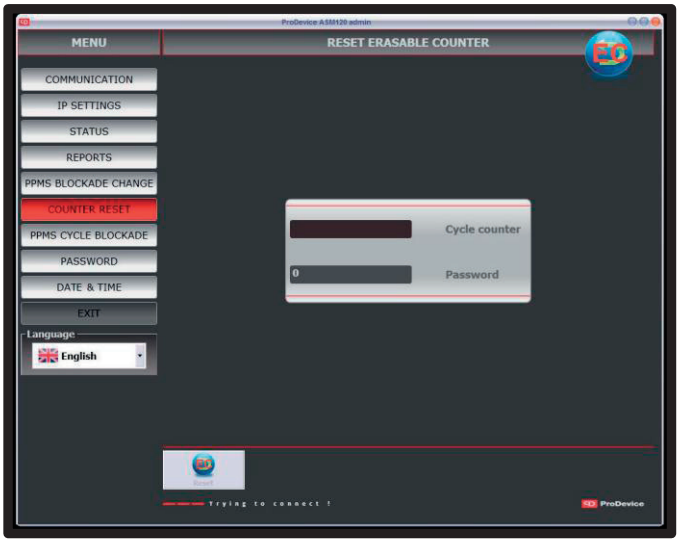

Fig. 4.1.7.1 Reset erasable counter function screen

The screen has fields with the following properties:

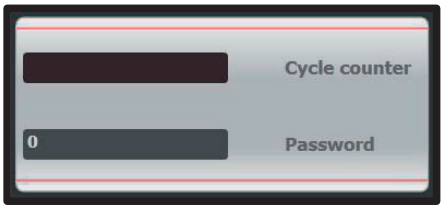

Fig. 4.1.7.2 The Reset erasable counter screen fields

- **Cycle counter** – this field displays the current value of the device erasable counter. The user cannot directly edit this field.
- **Password** – this field displays the password of the device the erasable counter of which will be reset.

The screen has a button which acts as follows:

Fig. 4.1.7.3 The Reset erasable counter screen function button

- **Reset** – this button resets the erasable button of the device. The button remains disabled until communication is established with the device. Clicking the button resets the Cycle counter indication to zero on the Reset erasable counter screen.

5.1.8. CYCLE BLOCKADE

The function screen which allows setting the Cycle blockade counter by using the device password only. The cycle blockade counter defines the value of the non-erasable counter beyond which the device will not complete new removal cycles. The value of the cycle blockade counter should be determined from the current value of the device non-erasable counter. Setting the cycle blockade counter at a value no higher than the non-erasable counter value will prevent the device from completing any removal cycle.

Setting the cycle blockade counter is a method of indirect setting the available cycles of the device which only requires the affected device's password. The available cycles count is the difference between the cycle blockade counter and the non-erasable counter value. When the cycle blockade counter value changes, the device available cycles counter value also changes.

The screen functionality also allows completely removing the blockade from the device. If the blockade is completely removed, the number of cycles the device can complete is continuously limited by the cycle blockade counter value and, as a result, by the device available cycles counter value. The cycle blockade counter is then set to: 4294967295, and the resulting available cycles of the device is a direct result of the difference between the cycle blockade counter and the non-erasable counter value.

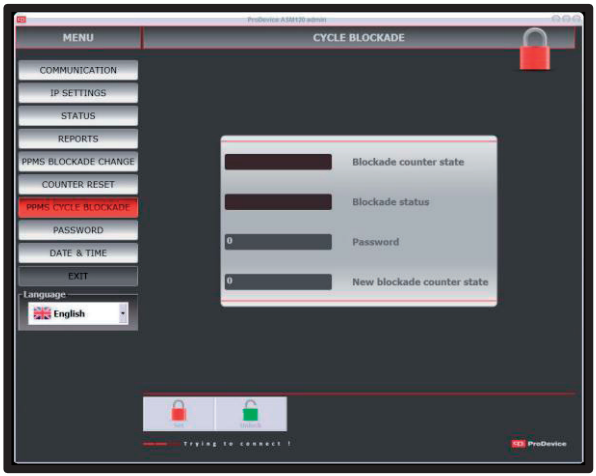

Fig. 4.1.8.1 Cycle blockade function screen

The screen has fields with the following properties:

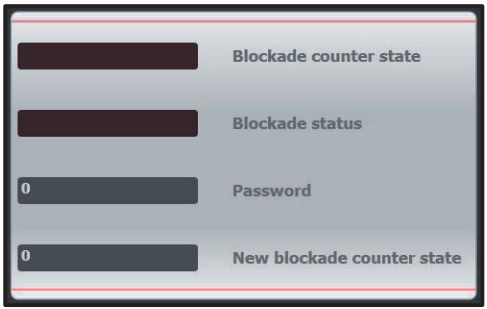

Fig. 4.1.8.2 The Cycle blockade screen fields

- **Blockade counter state** – this field presents the cycle blockade counter value of the device. When the blockade counter state is set to: *Not set*, the cycle blockade counter will be set to 4294967295. The user cannot directly edit this field.
- **Blockade status** – Blockade status – this field gives the current value of the device cycle blockade. Can have one of the two values. Set, when the device cycle blockade is enabled, and Undefined, when the device cycle blockade is disabled. The user cannot directly edit this field.
- **Password** – this field is used to enter the password to the device the cycle blockade of which will be modified. The user can directly edit this field.
- **New blockade counter state** – this field is used to enter the new cycle blockade counter value of the device. The user can directly edit this field.

This screen has the following set of function buttons:

Fig. 4.1.8.3 The Cycle blockade screen function keys

- **Set** – this button allows setting the cycle blockade counter value to the value entered in the **New blockade counter status** and to change the blockade status to: *Set*. The button remains disabled until correct communication is established with the device.
- **Unlock** – this button allows setting the cycle blockade counter to 4294967295 and to set the blockade status to: *Not set*. The button remains disabled until correct communication is established with the device.

LOCAL CHANGE OF THE BLOCKADE – STEP BY STEP INSTRUCTIONS

If the device can be physically accessed, it is possible to set the removal cycle blockade.

1. In ProDevice ASM120 ADMIN, enter the PPMS CYCLE BLOCKADE menu.
2. Enter the Password and define the New Blockade Counter State.
3. Click the SET button.

5.1.9. PASSWORD

The function screen which allows creating the *Key File*. The Key File is used to change the device password and only the device Owner can generate it. Based on the *Key File* sent by to the device Guarantor, the procedure is carried out to generate the *authorisation file to change the device password*. The *authorisation file to change the device password* is used again by the device Owner and once loaded in the application, the appropriate password change is carried out.

Only the device Guarantor can generate the *authorisation file to change the device password*. The functionality of the software application dedicated to the device Owner does not allow generating the *Authorisation File*.

Only the functionality of the software application of the device Owner allows to generate the *Key File* and to change the device password from the *authorisation file to change the device password*. The owner can choose to suggest the device password when they generate the Key File. The device user application functionality does not allow changing the device password.

Before creating the Key File to change the device password, the owner enters the suggested password which should be in the *authorisation file to change the password* generated by the Guarantor.

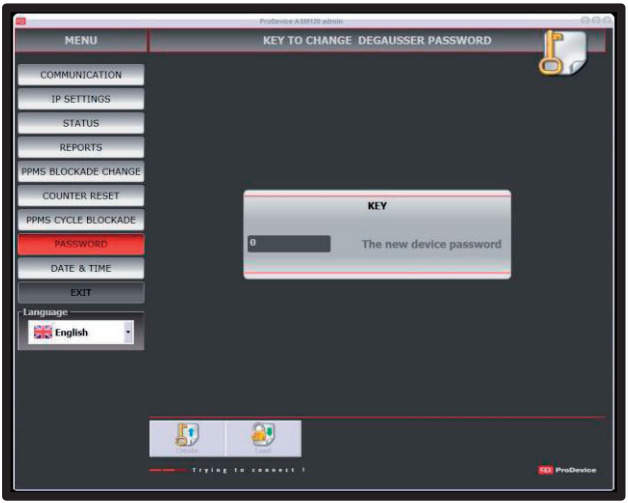

Fig. 4.1.9.1 Key to change degausser password function screen

The screen has a field with the following properties:

Key field group

Fig. 4.1.9.2 The Key to change degausser password screen fields

- **The new device password** – this information field shows the password of the device suggested by its Owner and to which the Key File relates. The user can directly edit this field.

This screen has the following set of function buttons:

Fig. 4.1.9.3 The Key to change degausser password screen function buttons

- **Load** – this button allows loading the authorisation file to change the password, generated previously by the device Guarantor. Clicking the button opens the system dialogue window to select the path of the Authorisation File. Selecting a file with an incorrect format displays the dialogue window with the incorrect file alert.

- **Create** – this button allows creating the Key File with the data which identify the device and with the password suggested by the Owner. Clicking the button opens the system dialogue window to select the path of the file. If the file fails to be saved, a dialogue window is displayed with the failed to save file error.

5.1.10. TIME & DATE

The function screen which allows adjusting the date and time of the device clock.

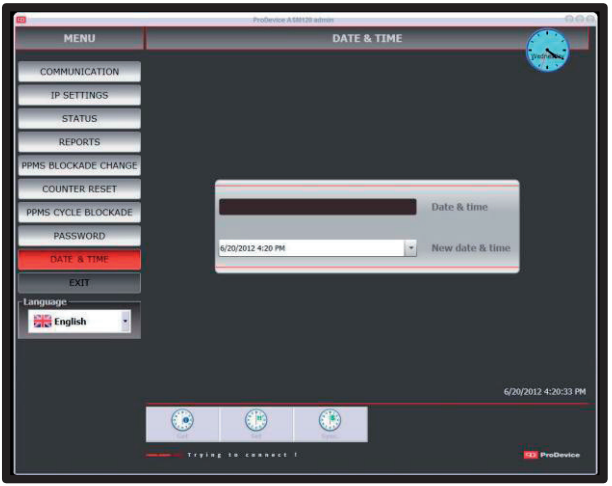

Fig. 4.1.10.1 Date & Time function screen.

The screen has fields with the following properties:

Fig. 4.1.10.2 The Date & Time screen fields

- **Date & Time** – this field displays the current date and time of the device.
- **New date & time** – this field is used to enter the new date and time of the device. The user can directly edit this field. Single-click the drop-down list in the field to display the calendar window which assists selecting the new date and time of the device.

This screen has the following set of function buttons:

Fig. 4.1.10.3 The Date & Time screen function buttons

- **Get** – this button displays the current date and time on the device. The values are displayed in the Date & Time field.
- **Set** – this button allows setting the date and time of the device as the values defined in the New date & time field.
- **Sync.** – this button can sync the date and time of the device with the PC computer system clock.

The function buttons of this screen remain disabled until correct communication is established with the device.

5.1.11. EXIT

The button closes the ProDevice ASM120 Admin software.

5.1.12. LANGUAGE

The Language drop-down list can be accessed in the software Menu and changes the interface language of ProDevice ASM120 Admin. The software interface language is changed directly after selecting the language option in the drop-down list.

6. THE CONFIGURABLE AND MONITORED DEVICE PARAMETERS

The following lists the parameters which are configurable on the device with the software tool functionalities.

- **Non-erasable counter** – an internal counter which synchronises the operation of all other counters. Due to the requirement of data integrity in the non-volatile memory of the device, it is the counter which increments when the cycles are completed.
- **Erasable counter** – the counter which is used to display the number of completed cycles from the last reset. Related parameter: Completed cycles count.
- **Blockade counter** – the counter which is used to trigger the device blockade. The counter is set by entering the non-erasable counter value; when the value is exceeded, no more cycles are left to be completed. It is possible to disable the blockade function. Related parameter: Available cycles count.
- **Cycle count to inspect** – this counter is used to notify about the necessary periodic inspection. The counter is set by entering the non-erasable counter value; when the value is exceeded, the device reports that the periodic inspection is due. **Related parameter:** The cycles left to inspection count.

- **MAC address** – the MAC address of the device, which is also assumed as the device serial number.
- **IP address** – the IP address of the device used to communicate with the machine.
- **RTC settings** – the date and time stored in the device.
- **RTC ID** – a special sequence of digits read from the RTC circuit memory and used to check that the memory structure is correct.
- **Device password** – the 32-bit password of the device which is stored only in the device memory. It is used to authorise received commands.
- **Events list** – the device stores up to 1890 events in a non-volatile circular buffer. The software can report the events which are divided into groups depending on the user access level.

The software tool also allows to:

- Reset the erasable counter with the known password of the device.
- Set the blockade counter with the known password of the device.
- Set the device RTC by entering the date and time settings.
- Check the selected parameters of the device.
- Change the MAC address.
- Change the device password with the authorisation file to change the password.
- Create the Key File to change the password.

6.1.1. ERROR MESSAGES

The software tool has a set of messages with encountered errors. The following lists the diagnostic messages.

- **Communication establishment attempt in progress** – this message is displayed in the status line of the software interface when communication is lost between the device and the software. When the communication is lost, the software attempts to reconnect until correct communication is restored.

- **Error when opening file** – this message is displayed in a new dialogue window. This means that the file has an incorrect format or that the file is corrupt. The message can be displayed in similar situations, e.g. during loading of the Key File to set the blockade or to change the device password.

- **Error when saving file** – this message is displayed in a new dialogue window. This means that the authorisation file saving is incorrect. The message can be displayed in similar situations, e.g. during saving of the Authorisation File to set the blockade or to change the device password.

- **File decryption failed** – this message is displayed in a new dialogue window. This means that the code key used to read the file is incorrect. The message can be displayed in similar situations, e.g. when loading the Key File, the Authorisation File or the Diagnostic File.

- **File has no data** – this message is displayed in a new dialogue window. It can be displayed when the Key File, the Authorisation File or the Diagnostic File without any data is read.

- **Incorrect password** – this message is displayed in a new dialogue window to notify that the password entered is incorrect for the currently connected device.

- **Events list cannot be empty** – this message is displayed in a new dialogue window when a report is saved without any entry on the list of events recorded by the device.

- **The new IP will be used after reconnecting the degausser** – this message is displayed in a new dialogue window after changing the device IP address.

- **Erasable counter reset** – this message is displayed in a new dialogue window after reseting the device erasable counter.

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ProDevice

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