

DESCRIPTION AND INSTALLATION USB SOFTWARE

DESCRIPTION:

Master software: it is installed only on the one computer or server, which is connected with a USB cable to the UPS. Displays: Measurements / alarm statuses / Data-log: saves all parameters every 10 seconds (6 months) / Event-Log: saves all alarms for one year / Sends emails to the user in the event of an alarm.

Slave software: it is installed on all other computers powered by the UPS (except the computer where the Master software is installed). Communicates with the Master software, which sends notifications from the UPS (when an alarm occurs).

The Master and Slave softwares create their own local network between the UPS and all the computers it supply. In alarm situations, the notification "CHECK UPS STATUS" appears on the monitors of all computers.

UPS uses the software for shut-down the operating systems on all computers at the same time, before turning itself off, with this solution all data is saved.

Master software monitor layout:

UPS master

HOME DATA LOG EVENT LOG SETTINGS ABOUT

Model UPS: T15
Serial number: 300015

00:00:12 TIME ON THE BATTERY PROGRAM EXIT

MEASUREMENT

INPUT VOLTAGE:	230 V
OUTPUT VOLTAGE:	227 V
FREQUENCY:	50 Hz
POWER OUTPUT:	0 %
BATTERY STATUS:	100 %
TEMPERATURE:	22 C

STATUS UPS

UPS CONNECTED	OVERLOAD
POWER FAILURE	OVERCHARGING
BATTERY EMPTY	OVERHEAT
CHECK BATTERY	BY-PASS

The software is for Windows platforms.
Choice of two languages: Serbian and English.

The master window shows: input voltage, output voltage, output power in percent, battery charge in percent, ambient temperature, serial number and model of the UPS device.

Alarm status:

- Total of eight alarms
- Green field color - no alarm

Red color of the field - the alarm is activated

Slave software: has a UPS indicator in the down taskbar on the computer screen:

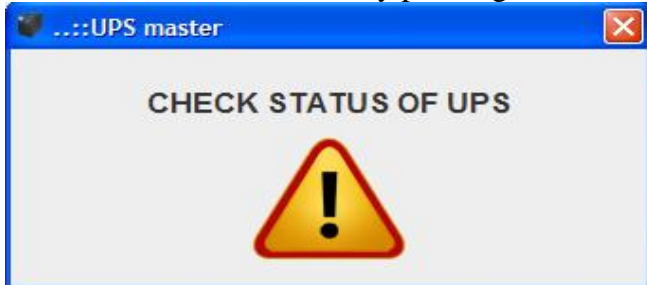
- If the letters are green - networked
- If the letters are red - it is not networked.

Notifications on monitors (Master / Slave):

The message "CHECK UPS STATUS" appears when alarms occur:

Main power is out of range / UPS connected / UPS is going to shut-down (when is press OFF button)

This window can be closed by pressing the "Close" button.



Notification „UPS STARTED SHUTDOWN PROCESS FOR....., appears when alarms occur:

Battery low / Check batteries / Overheating / Overload / Battery overcharging

This window **CANNOT SHUT DOWN**, counting down 60 seconds until the computer shuts down.



MASTER SOFTWARE INSTALLATION - read the instructions first!

- Installation of the Master software **only on the one computer or server connected to the UPS.**
- Connect the UPS and the computer with a USB cable
- Create a folder on the computer desktop and name it "Driver".
- Click on the "Master Setup" icon and follow the standard installation procedure.
- When the "LIB USB-win32-inf-Wizard" window appears, do the following instructions:
 1. Connect the UPS device to the computer (USB cable).
 2. Confirm „**NEXT**„,
 3. Choose **0x1234 USB UPS – NEXT**- write the manufacturer „M.M.Elektrolab,, -**NEXT**.
 4. When the window opens „**Save as**„, find and open the folder named „Driver,, which we created on the Desktop –**OK**
 5. The window opens again. „**LIB USB-win32-inf-Wizard**„, confirm (press button) „Instal now,, and after completion a window will appear: „Driver install complete / Instalation successful,, press **OK**.
 6. A new window will open „**Installation finished**„, LEAVE checks for the items: „creating a shortcut,, on the Desktop and for the shortcut in the „quick launch menu,, –press **OK**.

The MASTER software window opens, where we can now see the status of the UPS device and measurements.

IMPORTANT NOTES:

- The master software is automatically activated every time when we turn on the computer.
- For remove the master software window from the computer monitor **without turning off** the software, you need to press the red button in the upper right corner "CLOSE", with this way the Master software is active all the time. To reactivate the Master software window, you need to click twice time in a row on the UPS icon located in the right part of the Taskbar.
- DISCONNECTING the Master software, on the HOME page, press the "EXIT PROGRAM" button - now we have turned off the program, it will restart by itself the next time we turn on the computer again.
To restart the Master software, click on the UPS icon on the Desktop

INSTALLATION OF SLAVE SOFTWARE

- Slave software is installed on all computers powered by UPS -except on one computer where we installed Master software.
- Click on the "Slave Setup" icon and follow the installation instructions.
- When the installation is finished in the lower Taskbar, the inscription "UPS" will appear on the right side.
 - if the letters have a green color, this means that the computer has connected to the UPS
 - if the letters have Red color-it has not connected with UPS

In more complex network systems, you must wait about ten minutes for the connection.

UNINSTALLATION (Master and Slave):

Uninstalling the Master and Slave software, as follows:

- Press the button "Start-Programs-UPS Master (or UPS Slave)"
- choose Uninstall UPS Master (or UPS Slave)
- the standard procedure for Windows platforms is started, which ends with uninstalling the installation.

WINDOWS 10- ADDITIONAL SETTINGS:

If the UPS software applications do not work properly after the standard installation, the following should be done for Windows 10:

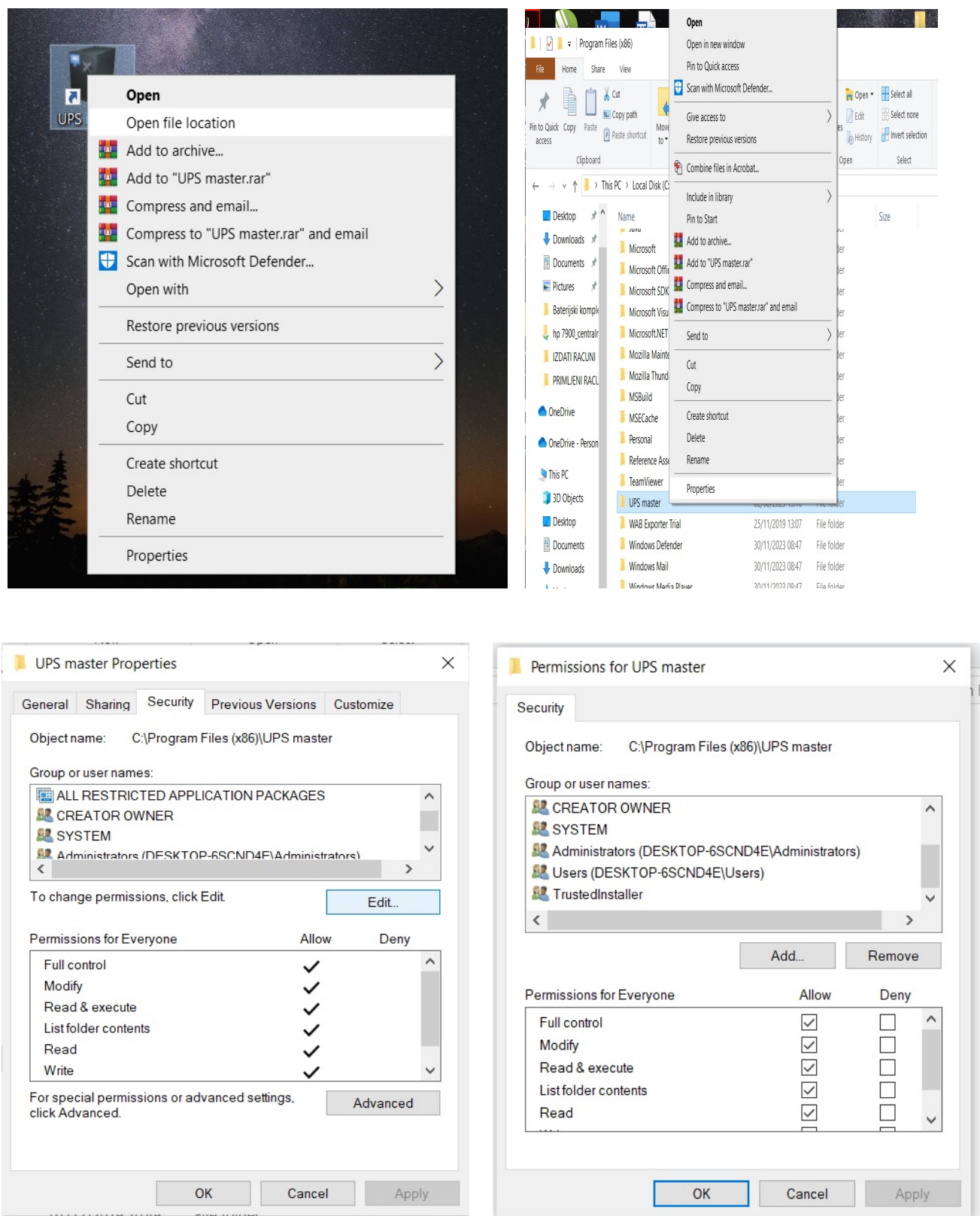
Settings for UPS Master / Ups Slave application:

Note: the settings are the same for UPS Master and UPS Slave applications.

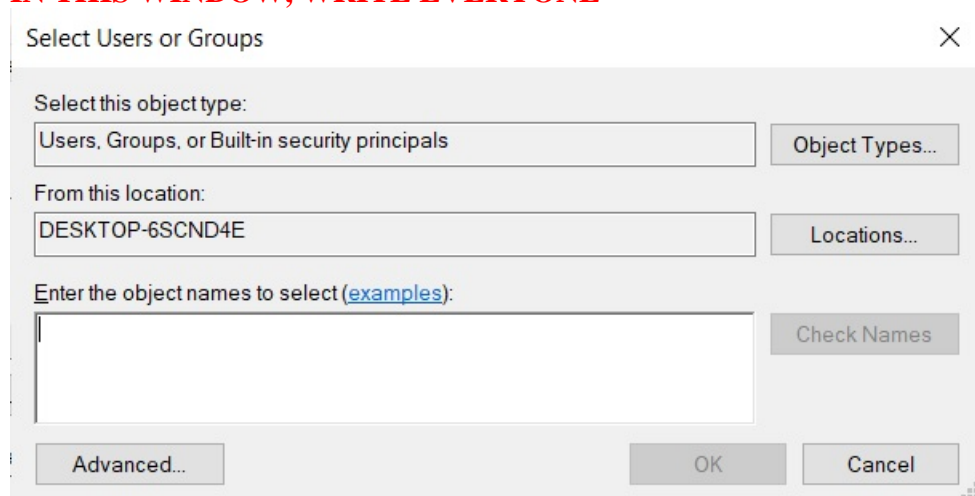
- Right click on the icon „UPS Master,, (or „Ups Slave,,) software on the Desktop –choose „Open file Location,,
- A window opens C:/Program files(x86) and there is „UPS Master,, (or „Ups Slave,,) folder.
- Right click on „UPS Master,, (or „Ups Slave,,) folder - choose „Properties,,
- Open „Security,, tab – click on the „EDIT,, - click on the „ADD,,
- A window opens „SELECT USERS OR GROUPS,, and write there: **EVERYONE**
- OK – APPLY-OK

Put confirm on the „FULL CONTROL,, then confirm- OK

PICTURES OF THE SETUP,,UPS MASTER,, (The same procedure is for UPS Slave) APPLICATIONS:

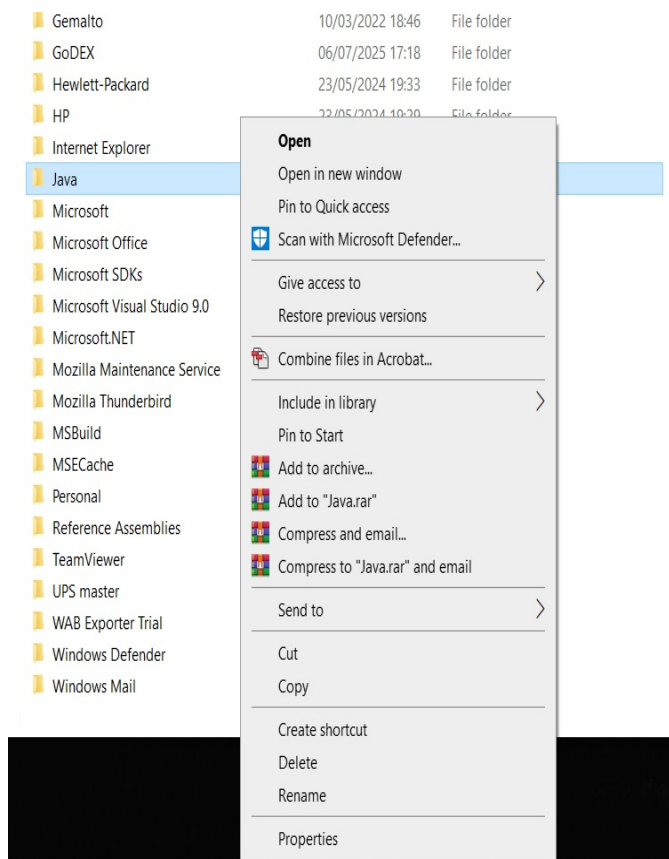
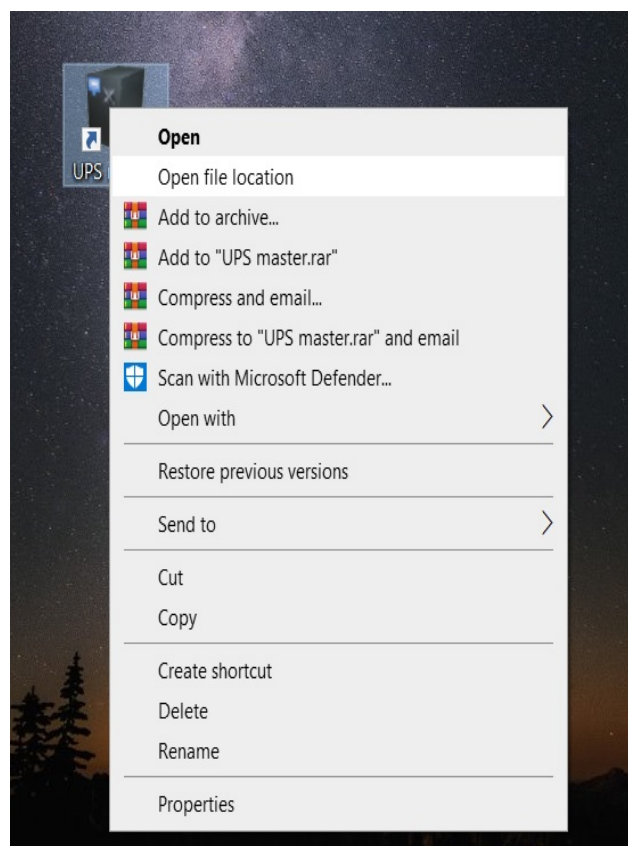


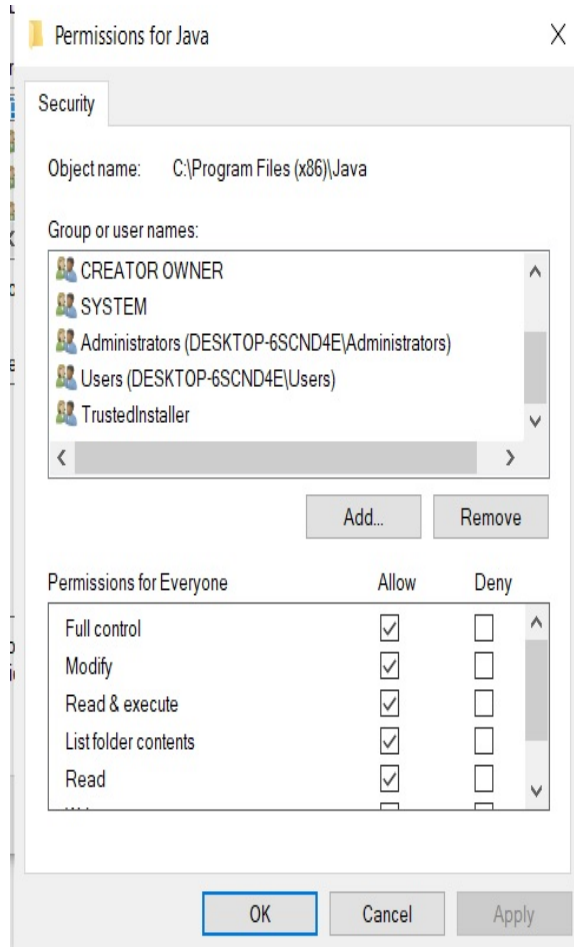
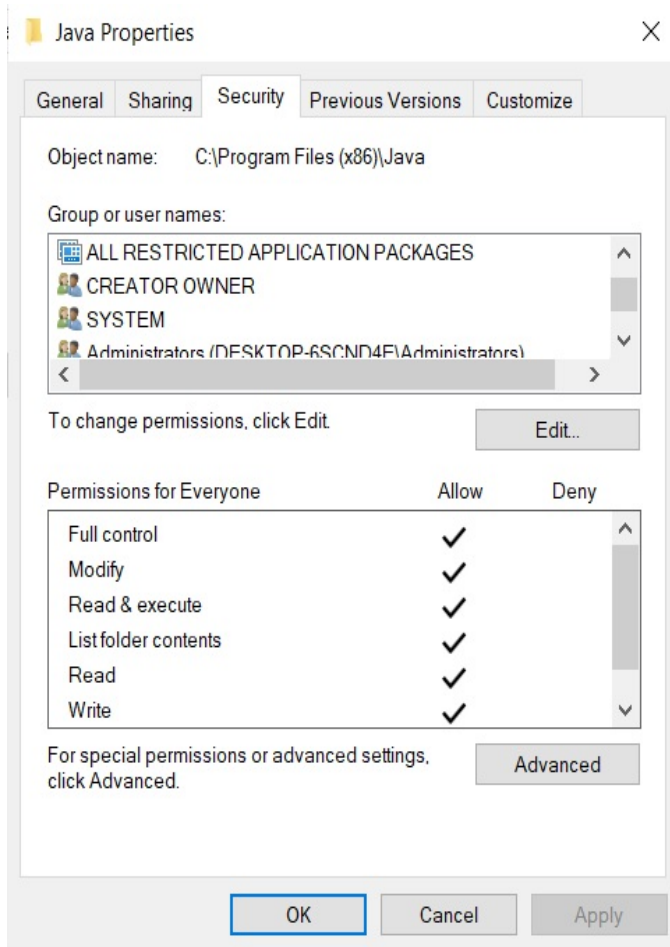
IN THIS WINDOW, WRITE EVERYONE



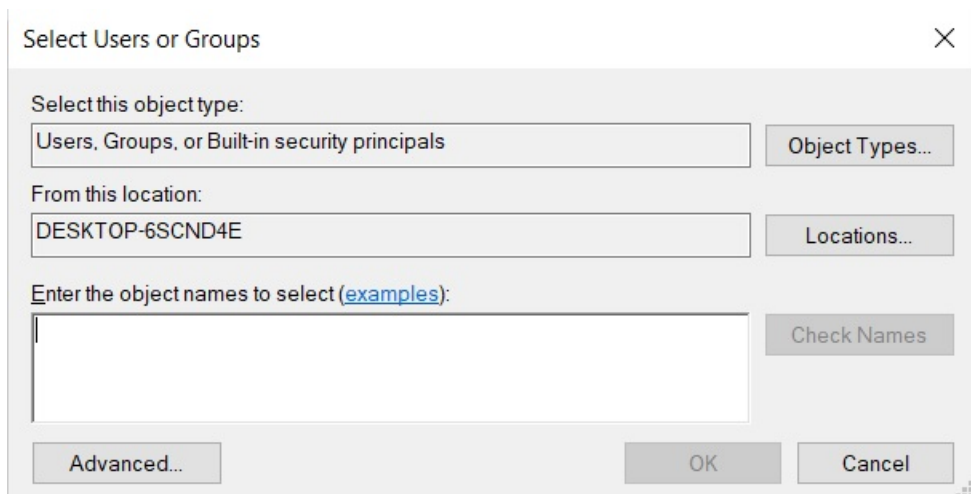
Settings for JAVA application:

- Right click on the icon „UPS Master,, (or „Ups Slave,,) software on the Desktop –choose „Open file Location,,
- A window opens C:/Program files(x86) and there is „JAVA,, folder.
- Right click on the „JAVA,, folder - choose „Properties,,
- Open „Security,, tab – click on the „EDIT,, - click on the „ADD,,
- Open window „SELECT USERS OR GROUPS,, and write there: **EVERYONE**
- OK – APPLY-OK
- Put confirm on the „FULL CONTROL,, then confirm- OK





IN THIS WINDOW, WRITE EVERYONE



RESTART COMPUTER AND „UPS MASTER,, / „UPS SLAVE,, SOFTWARE SHOULD WORK NORMALLY

SETTINGS page

Choice of language: English or Serbian.

RESET port: if the Master software reports that it has lost connection - press the RESET button.
If the connection was not established, disconnect the USB cable -wait 10 seconds - connect the USB cable.

Email setup:

- Setting the mail to which the user wants to receive information.
- Activating the sending of alarm situations to the manufacturer's service email.

Enabling UPS sent information to mail, put a confirmation:

Enabling UPS sent alarms to the mail manufacturer UPS, put a confirmation (optional):

Sender's name / Company name:

- Enter the name of the company where the UPS device is installed.

E-mail address of the sender / company:

- Enter the email address of the company where the UPS is installed.

Email address for notifications:

Enter the email to which the user receives information from UPS (alarms)

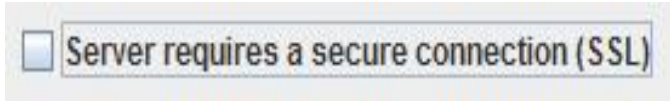
SMTP server address:

- Enter server address (Outgoing mail SMTP)
- An example of finding a server address:
Outlook / Tool /Accounts / Propertis /Servers
- **GMAIL server: smtp.gmail.com**

Ports:

- Enter the number 25 (example)
- GMAIL 465 (example).

If we do NOT use the GMAIL server, then we remove the confirmation:



Put the confirmation:



Username:

- Enter the e-mail address of the company where the UPS is located
- Password: enter the email password.

Finally, press the button:



IMPORTANT NOTE:

**If an Antivirus program is installed on the computer, enable it to send emails.
Turn off the Firewall for the local network.**

TESTING SOFTWARE AND COMMUNICATION

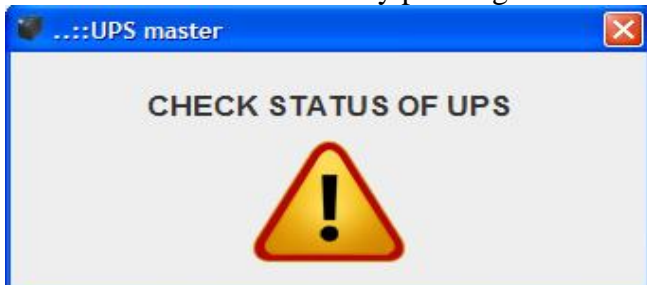
If everything is fine:

- Master software: alarm fields are green / shows measurements
- Slave software: green letters UPS in the lower taskbar

Alarm simulation:

- Press the ON button on the UPS (TEST function), the UPS start work on Batteryes:
- Master software: POWER FAILURE alarm field is red
- Slave / Master software: a window will appear notice: „CHECK UPS STATUS,,

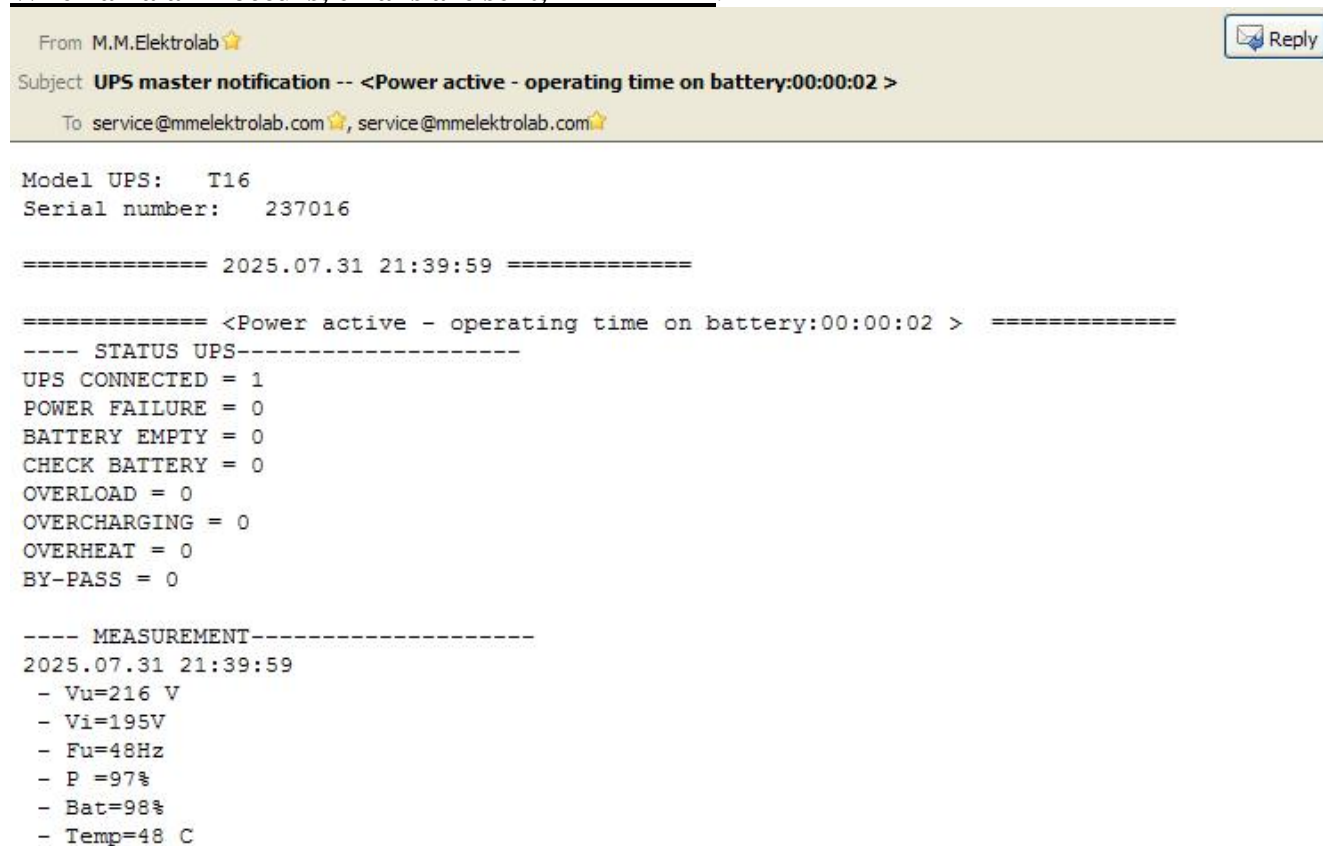
This window can be closed by pressing the "Close" button.



After 5 seconds, the UPS returns to mains power:

- Master software: POWER FAILURE - field is green
- Slave / Master software: notification window to check ups status -disappears.

When an alarm occurs, emails are sent, EXAMPLE:



When the Alarm disappears, UPS sends mail again - Statuses of alarms and measurements.

The email notification shows the following:

- from which company is the alarm coming from
- UPS model and serial number
- which alarm was generated
- time and date of the alarm
- parameter measurements

IMPORTANT NOTES:

- IF INTERNET CONNECTION ARE DISABLED (FAILURE), THE SOFTWARE IS NOT ABLE TO SEND MAIL, IT WILL SEND AN EMAIL WHEN THE INTERNET IS BACK.
- E-MAILS WHICH HAVE NOT BEEN SENT CAN BE VIEWED ON THE EVENT LOG PAGE: „E-mail number to send =0,,
- IF THE USER „SHUT OFF,, THE „UPS MASTER,, SOFTWARE, THE PENDING EMAILS WILL BE DELETED.
- IF AFTER 24 HOURS THE SOFTWARE FAILS TO SEND THE E-MAILS THEY WILL BE DELETED, BUT THE INFORMATION ABOUT THE ALARMS THAT OCCURRED REMAINS IN THE EVENT LOG.

Description of Data Log / Event Log:

Data Log:

- Memorization of all measurements values that are important for UPS operation, every 10 seconds
- 100,000 memories
- Data can be recorded, to view data -Word Pad recommended.

Event Log

- Memorization of alarms and measured values in real time.
 - 100,000 memories
- Data can be recorded, for data review -Word Pad recommended.