ENERGENIE

your switch is my command

PMS-LAN User Manual

1. Introduction

Congratulations on your purchase of the *Power Management System LAN & Surge Protector*. Your PMS-LAN is an advanced surge protector with power management features. Four sockets are individually manageable by the computer via the LAN interface.

The sockets can be switched on/off by a timer schedule, by direct user control or by programmable events. It is also possible to pre-program the unit event timer schedule (hardware schedule) and then disconnect the PMS-LAN from the managing computer. The device can be used as an advanced standby-killer.

You can manage your PMS-LAN via the Internet from all over the world, even from your Smartphone.

1.1. Features

- The main rocker switch switches all sockets on and off
- Each manageable socket can be switched on and off via the software control window

- The unit can be pre-programmed with a timed schedule. The schedule will operate even when the managing computer is switched off or disconnected. A typical application could be: “switch my peripherals on every working day at 8:50 AM”.
- The manageable sockets can also be controlled from the attached computer *Power Manager* software to react to a particular event (e.g. Windows or other programs start-up/shutdown), simple typical applications could be: “switch my scanner on when I want to scan” or “switch my printer off whenever I exit Windows”
- Real time *Voltage monitor* provides information about the *actual* status of each manageable socket (on or off). This information can be further utilized in various ways (e.g. to check the proper execution of the switching commands)
- The unit can be assigned a network name as a shared LAN resource and can be afterwards accessed and managed from anywhere within the local area network or Internet (provided the managing computer is switched on)
- Surge Protection. Includes resettable circuit breaker.

1.2. Specifications

- Input voltage: 220–250 VAC, 50-60 Hz
- Maximum load: 13A, 3kW
- Maximum power consumed by the PMS-LAN: 2.5 W
- Built-in power supply
- Hardware schedule features:
  - Maximum number of independent hardware schedule events – 16 per socket
  - Time interval between the events – from 1 minute to 180 days
  - Timer accuracy: no more than 2 seconds error per day providing power is always present. Otherwise there can be an additional (up to 2 seconds) error per each power off.
- Working temperature range: from +10 to +40 °C
- Dimensions: 378 x 98 x 55 mm
- Net weight: 1.0 kg

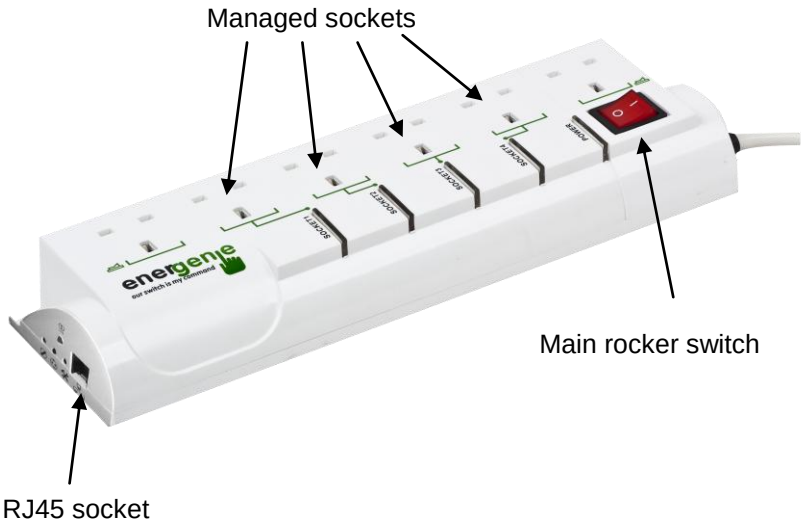
1.3. Hardware requirements

- Computer running Windows® 2000/XP/Vista or Windows 7
- One free USB port

1.4. Package contents

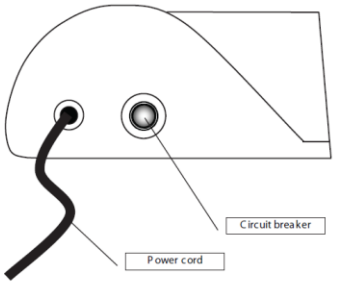
- PMS-LAN
- User manual
- RJ45 LAN patch cable, RJ45 LAN cross over cable
- CD with *Power Manager* software for Windows (use of this software is not compulsory)

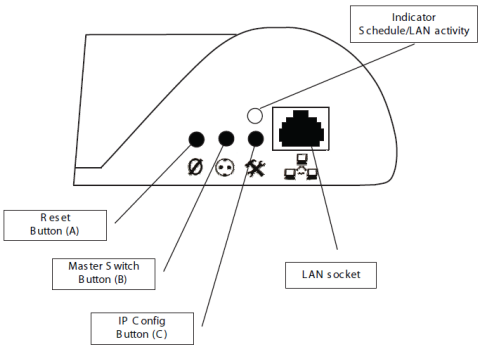
2. Indicators and controls of the PMS-LAN



2.1. Side panels

Figure 2





2.2. Indicators

- *Main rocker switch* Z (Figure 1 above) is illuminated - the PMS-LAN is connected to the power supply and active.
- *Power indicator* (Figure 1 above) is illuminated. The non-manageable sockets (marked with the sign ) are switched on.
- The indicator *Socket 1 (2,3,4)* (Figure 1 above) is lit. The particular socket is switched on.
- The indicator *Schedule/LAN activity* (Figure 2 above) blinks green – there is some LAN activity taking place.
- The indicator *Schedule/LAN activity* (Figure 2 above) blinks red as the reset procedure is being executed.
- The indicator *Schedule/LAN activity* (Figure 2 above) stays red if an active hardware schedule for any socket exists.

2.3. Controls

- *Main rocker switch (Z)* enables power to be supplied to the sockets. The two unmanaged sockets will be powered.
- *Circuit breaker.* Pressing this button will reset the circuit breaker protective device if it has been tripped.
- *Reset button (A).* The PMS-LAN can be restarted if it can't be accessed or works abnormally. All the IP settings and device settings will remain the same as before, but the server time will become outdated and all schedules will be reset.
- *Master switch button (B).* Switches all the manageable sockets on and off regardless of their current status or schedule that is being executed.
- *IP config button (C).* Resets the PMS-LAN to the default IP settings.

3. Installation

- The device is for internal use only. It is strongly recommended to avoid damp or wet places for installation.
- The PMS-LAN should be connected to a standard UK mains socket.

3.1. Getting started

- Connect PMS-LAN to the wall socket first and then to the LAN socket (or your computer LAN card) with the provided patch cord or vice-versa.
- The PMS-LAN can now be switched on and off by means of the *Main rocker switch (Z)*.
- The first and the last sockets of the PMS-LAN are marked with the symbol  . These two sockets are switched on and off by means of the *Main rocker switch (Z)* and cannot be managed by the computer – so they are termed *non-manageable sockets* in this manual.
- When the PMS-LAN is switched on, the red POWER indicator illuminates. In this case both non-manageable sockets are now *live* and connected to the power supply.

- The sockets: *Socket 1, Socket 2, Socket 3 and Socket 4* can be managed or pre-programmed by computer via the LAN connection. They are called *manageable sockets* in this manual.
- The manageable sockets of the PMS-LAN can be programmed to be on or off. The current status of each manageable socket is represented by the corresponding indicator which will be lit if socket has power to it.
- If the *Main rocker switch (Z)* (Figure 1 above) is turned off then the manageable sockets cannot be switched on by either the *Power manager* software or the hardware schedule.
- When the *Main rocker switch (Z)* is switched on, the *Power Manager* software or the hardware schedule will also be enabled. The manageable sockets can then be switched on and off.
- *Master switch button (B)* (see Figure #2 above) can also switch all the manageable sockets on and off regardless of their current status or schedule that is being executed. To switch them on you should keep the button pressed for 1-2 seconds. To switch them off you should keep the button pressed for more than 3 seconds.
- To protect the connected devices from possible high current and short circuit, the PMS-LAN is equipped with an automatic circuit breaker.

Note: If the total power consumption (or peak power) of the devices, connected to the PMS-LAN exceeds 3 kWatts, the circuit breaker will automatically disconnect the PMS-LAN from the mains supply. Remove the excessive load and then press the Circuit breaker button to restore the power supply (Figure 2 above).

To be able to use PMS-LAN you will now have to complete its LAN configuration.

3.2. Obtaining an IP address.

Option A – via connection to the LAN (recommended)

Make sure the PMS-LAN is connected to the local network with the RJ-45 patch cable.

Note: by default the factory setting of PMS-LAN is DHCP enabled. If your LAN has a router with built-in DHCP server (which is very common) then PMS-LAN will automatically get an IP address from the DHCP server. Proceed to section 3.3 below in this case.

Option B – via connection to the managing computer

If **your LAN does not have DHCP server** you may prefer to connect PMS-LAN directly to the managing computer LAN adapter (network card) using the supplied *crossover* RJ-45 cable.

If you choose for *option B* then the following procedure is required to let the PMS-LAN obtain a fixed IP address:

- Turn PMS-LAN off (with the *Main rocker switch Z*)
- Hold down the *IP Config (C)* button on the side control panel (see Figure 2 above) with the tip of a pen and turn the *Main rocker switch Z* on. Wait for about 3 seconds until you hear the sockets switching twice.

This procedure will force the PMS-LAN to reset itself to the default settings below ...

- IP: 192.168.0.254
- Subnet mask: 255.255.255.0
- Gateway: 192.168.0.1
- DNS:0.0.0.0
- DHCP: enabled
- IP filtering: disabled
- Power Manager client port: 5000

... PMS-LAN then searches for an IP address from your eventual DHCP server. If no DHCP server is found within 1 minute, PMS-LAN will then automatically revert to the default settings (see above, with IP address 192.168.0.254).

3.3. *Power Manager* installation

It is now time to identify which IP address has been obtained. We need to carry out the following:

- Insert the *Power Manager* CD into a PC CD-ROM drive. This PC can be connected either to the same LAN where the device is (if you chose *option A*) or directly to the device with the crossover RJ-45 cable (if you chose *option B*).
- If for any reason the automatic setup does not work, then open CD-ROM drive in the *My Computer* window and launch SETUP.EXE from the CD
- Follow the instructions to install the software

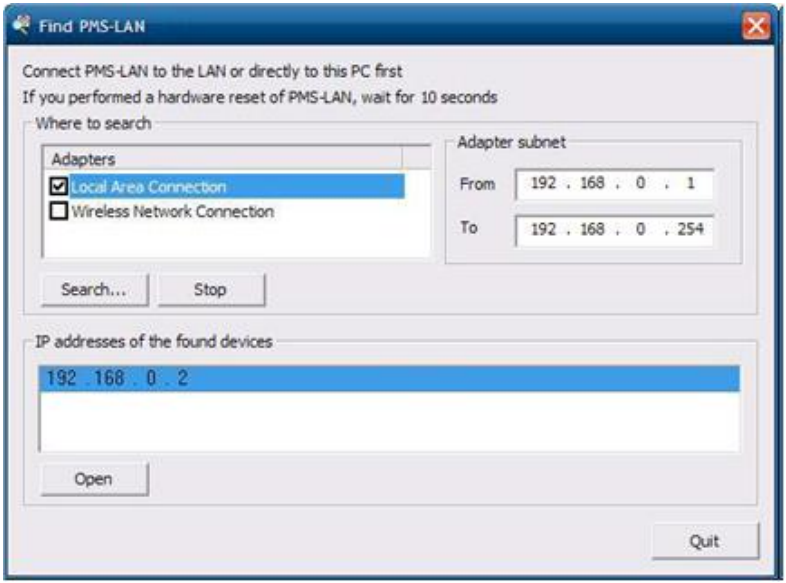
Note: Antivirus or firewall software may block connection to the PMS-LAN. Please, configure antivirus/firewall to permit connection to the IP address and port of your PMS-LAN.

3.4. IP configuration

The utility *Find PMS-LAN* (see Figure 4 below) will run automatically during the software installation but it can also be started from *Start/All Programs/Power Manager*. The IP range where you would like to search for PMS-LAN will be set automatically according to the IP settings of your LAN adapter but can be changed manually in the *Adapter subnet* fields. Now press the *Search* button.

Note: only PMS-LAN within a local subnet can be found. If your computer LAN adapter is not in the (default) subnet of PMS-LAN (as may be the case if you chose option B section 3.2) you will have to change its IP address manually to be able to find PMS-LAN.
For example if you wish to find PMS-LAN (with the default IP 192.168.0.254), the IP address of your computer should be set as 192.168.0.XXX (where XXX stands for any digit, for example 1) and the subnet mask should be 255.255.255.0.
After the searching the IP addresses of the found PMS-LAN devices will appear in the list box. Select PMS-LAN which you want to access, and press the *Open* button (see Figure 4 below).

Figure 4



The window of your default internet browser will be then opened to give you access to the built-in web-server. See section 4 below for the further details.

4. The web server

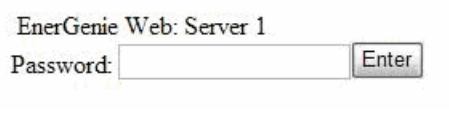
The PMS-LAN is equipped with a web-server which allows it to be managed using a web browser such as Internet Explorer, Firefox etc.

4.1. Web-server login page

To access the web server of PMS-LAN, just open Internet Explorer (or other browser) and input the IP address of PMS-LAN (for example *http://192.168.1.241*). If you have used *Find PMS-LAN* utility to locate PMS-LAN then you will be taken to this webpage automatically. *Login* page will then be displayed (see Figure #5 below).

Note: Java script must be enabled in your Internet Explorer (or another browser) settings. Otherwise, you get an error message: WARNING! JAVASCRIPT IS DISABLED!

Figure 5



The default password is *1*. It is recommended to change the password on the *Device settings* page (see section 4.6 below) after the first login.

After a successful login you will face the *Socket 1 Status* page (see section 4.2 below).

Note: You may then need to open the *LAN settings* page (see section 4.5 below) to complete the IP configuration.

4.2. EnerGenie page

With the help of EnerGenie page (see Figure 6 below) you will be able to see the status of all your four manageable sockets, and to switch the sockets on and off manually. The status of your sockets, as well as the buttons to switch them on/off are located at the top of the page.

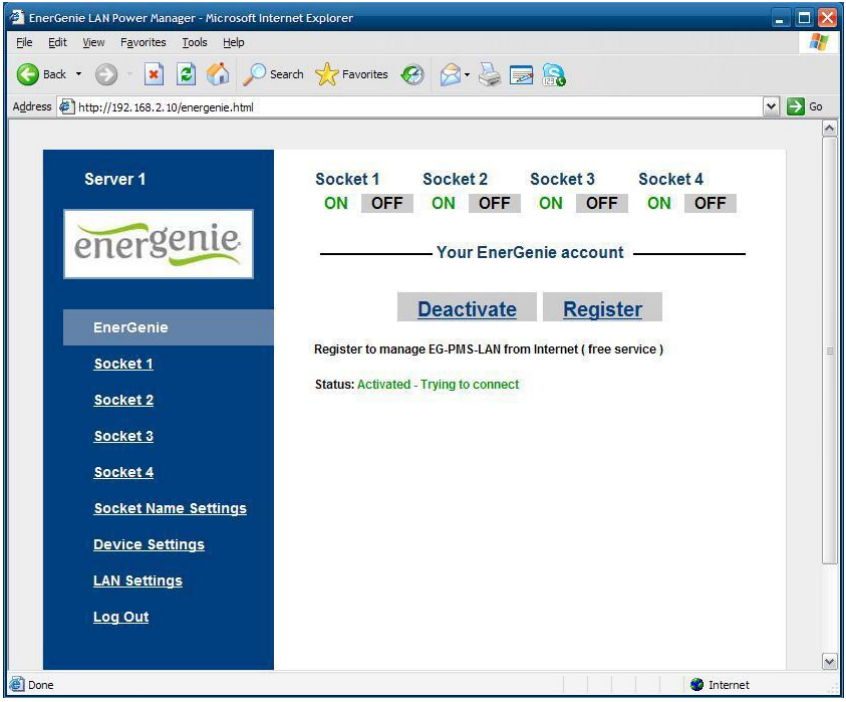
Note: the names of the sockets can be changed from the default Socket1/Socket2/Socket3/Socket4 to something meaningful on the page Socket Name Settings (see section 4.4 below).

The EnerGenie page also allows you to setup access and management (switch on and off) of your PMS-LAN from anywhere via Internet even if it does not have an external IP address. To setup this free service you should follow two simple steps:

1. Register the device. To restrict access to the device via the Internet to the rightful owner only, the device should be registered – e.g. assigned to your account. To register the device, simply push the button *Register* on this page (see Figure #6 below). You will then be redirected to Login page of EnerGenie.com. If you already own an account at EnerGenie.com then just enter your login and password on this page and you are done. Otherwise, use the *Registration* button on the Login page to create a new account. After your successful login (regardless whether you created a new or used an existing account) your PMS-LAN is automatically registered.

2. Return back to the EnerGenie page of your PMS-LAN (see Figure 6 below). Push *Activate* button to let the device initiate communication with EnerGenie.com server. The EnerGenie page will then start updating itself until the *Status* becomes *Registered Activated Connected* (see Figure 6 below).

Figure 6

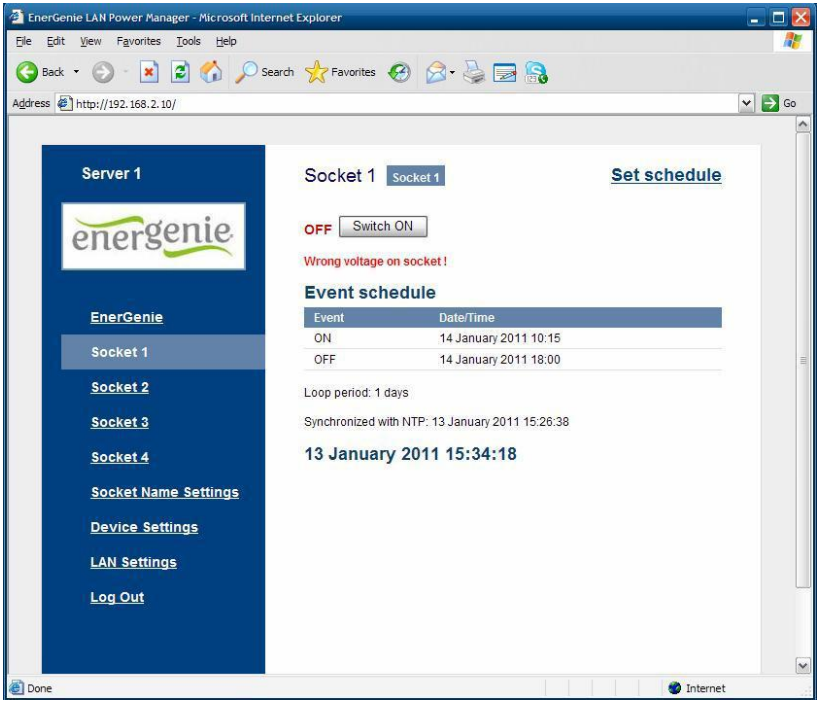

EnerGenie LAN Power Manager - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites
Address http://192.168.2.10/energenie.html
Go
Server 1
energenie
EnerGenie
Socket 1
Socket 2
Socket 3
Socket 4
Socket Name Settings
Device Settings
LAN Settings
Log Out
Socket 1 Socket 2 Socket 3 Socket 4
ON OFF ON OFF ON OFF ON OFF
Your EnerGenie account
Deactivate Register
Register to manage EG-PMS-LAN from Internet (free service)
Status: Activated - Trying to connect
Done
Internet

After a successful registration and activation, the button *Register* will be renamed to *Login* (and will then open the Login page EnerGenie.com) and the button *Activate* will become *Deactivate*.
If you decide to stop managing your PMS-LAN via the Internet, use the *Deactivate* button to stop communication with the EnerGenie.com server.
You can change the registration of your PMS-LAN and assign it to another account via the EnerGenie.com website (see section 5 below).
See section 5 below for further details on managing your PMS-LAN via the EnerGenie.com website.

4.3. Socket page

Each of the 4 manageable sockets ot the PMS-LAN has a separate status page headed with the socket number and name. (see Figure 7 below).
Each page shows socket status and the scheduled events for this socket. It also allows the socket to be switched on or off manually. (see section 4.4 below).

Figure 7


EnerGenie LAN Power Manager - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites
Address http://192.168.2.10/
Go
Server 1
energenie
EnerGenie
Socket 1
Socket 2
Socket 3
Socket 4
Socket Name Settings
Device Settings
LAN Settings
Log Out
Socket 1 Socket 1
Set schedule
OFF Switch ON
Wrong voltage on socket !
Event schedule
Event Date/Time
ON 14 January 2011 10:15
OFF 14 January 2011 18:00
Loop period: 1 days
Synchronized with NTP: 13 January 2011 15:26:38
13 January 2011 15:34:18
Done
Internet

The socket shown in Figure #7 is currently off. It will turn on automatically on the 14th of January at 10:15 and switch off at 18:00. The two events will be executed with a loop period of 1 day.
The current time of the web-server and information about the last successful timer synchronization is also displayed. Automatic timer synchronization is used if the *Use NTP for time correction* option is enabled (see section 4.6 below).

Note: If a socket has a switching fault:

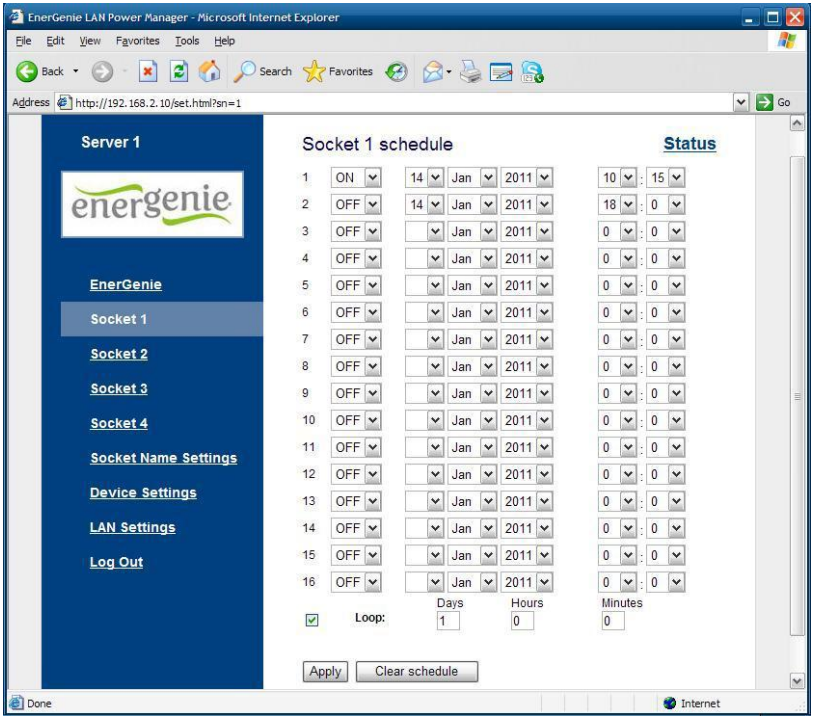
e.g. it has been switched on but the whole device is switched off

OR

e.g. it has been switched off but there is voltage at the socket

...then the warning message *Wrong voltage on socket!* will be shown above the *Event schedule* (see Figure #7 above).
This message may also indicate that this socket is defective. For setting up the socket schedule use the *Set schedule* button (see Figure 8).

Figure 8


EnerGenie LAN Power Manager - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites
Address http://192.168.2.10/set.html?sn=1
Go
Server 1
energenie
EnerGenie
Socket 1
Socket 2
Socket 3
Socket 4
Socket Name Settings
Device Settings
LAN Settings
Log Out
Socket 1 schedule
Status
1 ON 14 Jan 2011 10 : 15
2 OFF 14 Jan 2011 18 : 0
3 OFF Jan 2011 0 : 0
4 OFF Jan 2011 0 : 0
5 OFF Jan 2011 0 : 0
6 OFF Jan 2011 0 : 0
7 OFF Jan 2011 0 : 0
8 OFF Jan 2011 0 : 0
9 OFF Jan 2011 0 : 0
10 OFF Jan 2011 0 : 0
11 OFF Jan 2011 0 : 0
12 OFF Jan 2011 0 : 0
13 OFF Jan 2011 0 : 0
14 OFF Jan 2011 0 : 0
15 OFF Jan 2011 0 : 0
16 OFF Jan 2011 0 : 0
Days Hours Minutes
Loop: 1 0 0
Apply
Clear schedule
Done
Internet

Choose the date and time of the scheduled event. If you wish the events to be executed periodically then check the *Loop* option and set the loop period. To commit your changes, press the *Apply* button. To delete the entered schedule, press the *Clear schedule* button.

Note: The hardware schedule keeps running even when the device is powered off. However it is recommended not to power off the device for extended periods as the built-in battery has a limited lifespan. If the battery dies, the schedule will be completely cleared. The total lifetime of the battery is no less than 2 years if the device is powered off, and no less than 5 years if the device is powered on.

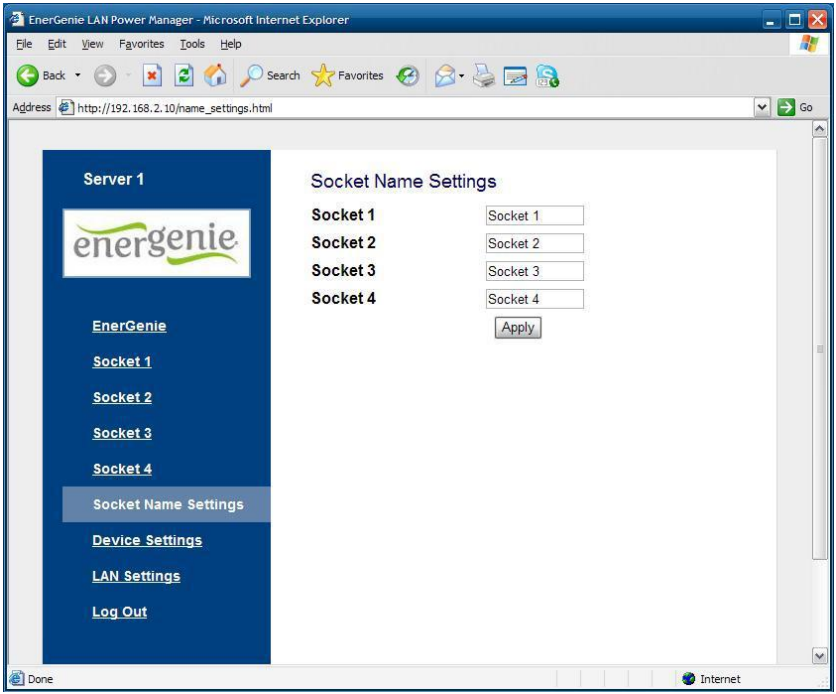
4.4. Socket Name settings page

On the *Socket name settings* page (see Figure 9 below) you can assign suitable names to the sockets. These names will be shown on the *EnerGenie* page and on the *Socket* pages.

Note: The maximum socket name length is 11 characters.

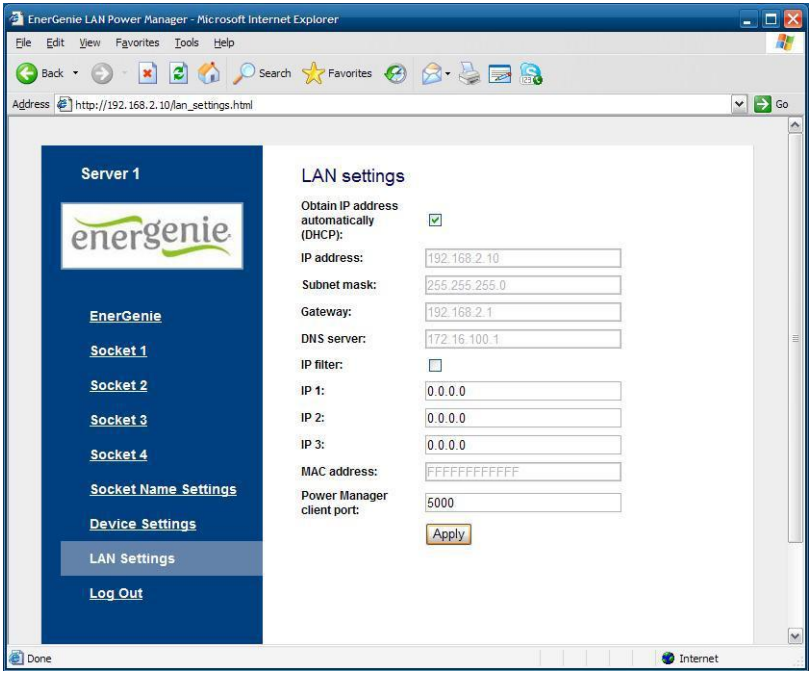
Hint: Identify your socket with the equipment which is plugged in.

Figure 9


EnerGenie LAN Power Manager - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites
Address http://192.168.2.10/name_settings.html
Go
Server 1
energenie
EnerGenie
Socket 1
Socket 2
Socket 3
Socket 4
Socket Name Settings
Device Settings
LAN Settings
Log Out
Socket Name Settings
Socket 1
Socket 2
Socket 3
Socket 4
Socket 1
Socket 2
Socket 3
Socket 4
Apply
Done
Internet

4.5. LAN settings page

Figure 10



On the *LAN settings* page (see Figure 10 above) you can set up DHCP, IP address, Subnet mask, Gateway, DNS server and IP filter (up to 3 IP addresses can then be enabled for remote access). The new settings will be applied immediately after you press the *Apply* button.

IP address, Subnet mask, Gateway, DNS server will be used only if the *DHCP* option is disabled.

If you set *DHCP* option it is recommended for your own convenience to set up your DHCP server so that it always provides the same IP address to PMS-LAN. To do that you will need to know the MAC address of PMS-LAN. It can be found on this page or on the bottom sticker of the device. The MAC address is fixed and cannot be changed.

DNS server address is important to be properly set up in case you wish to enable the NTP timer correction option (see section 4.6 below).

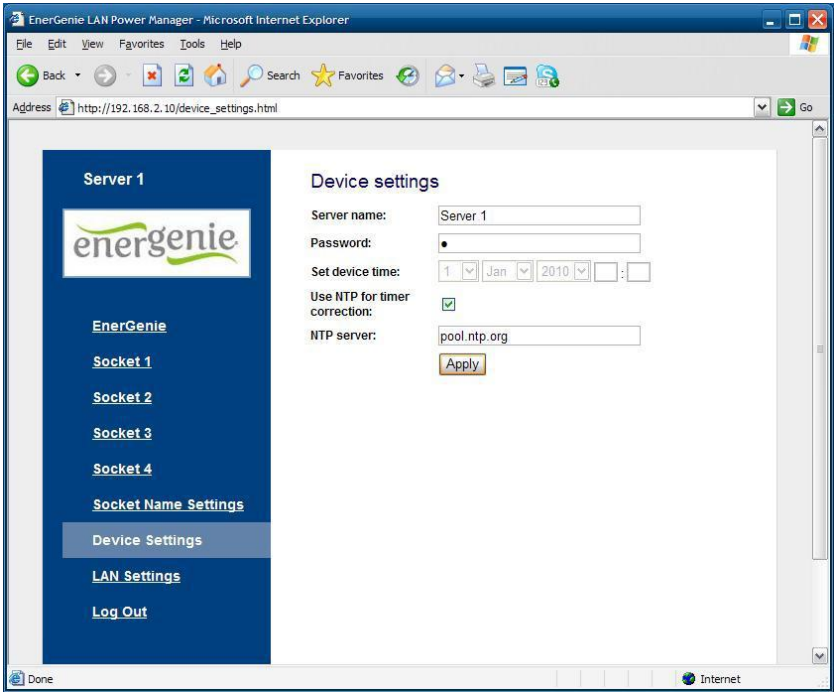
IP filter option is needed to prevent unauthorized access to the server. It restricts the web server access from any computer with IP address different from IP1, IP2 and IP3. Make sure that you input IP1, IP2, and IP3 correctly before enabling this option.

Power Manager client port is used for connecting with the Power Manager software, normally it is not needed to change this setting.

4.6. Device settings page

On the device settings page you can setup name, password and internal time of the PMS-LAN (Figure 11 below).

Figure 11


EnerGenie LAN Power Manager - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites
Address http://192.168.2.10/device_settings.html
Go
Server 1
energenie
EnerGenie
Socket 1
Socket 2
Socket 3
Socket 4
Socket Name Settings
Device Settings
LAN Settings
Log Out
Device settings
Server name: Server 1
Password:
Set device time: 1 Jan 2010
Use NTP for timer correction:
NTP server: pool.ntp.org
Apply
Done
Internet

1. Initialise the internal clock by entering the current local date and time. Alternatively if the option *Use NTP for timer correction* is enabled (by default) then the time will be taken from the NTP server. The device will try to connect with the server every 18 hours. The first synchronization would take place in 15 seconds after you press the *Apply* button. *NTP server* field should have a valid name of NTP server (by default “pool.ntp.org”). If for any reason the NTP time correction doesn’t work you can choose the best NTP server for your country via the website www.pool.ntp.org.

   Note: for NTP time correction to work properly the device should have access to the Internet and have a proper DNS server setting (see section 4.5 above).

2. Server name can be convenient to identify the web server if you have more than one PMS-LAN. It is “Server 1” by default.

3. The password is necessary to access PMS-LAN both from your web browser and the *Power Manager* software (see section 6 below). This password is case-sensitive and can be up to 32 characters long. Alphanumeric characters and spaces may be entered. Only the first eight characters of the password are used to access the device with the *Power*

Manager software. You will need to enter this password in the *Add LAN device* window (see section 7 below).

The *Power Manager* software accesses PMS-LAN via a particular client port (by default 5000). You can change this port to any other except port 80 which is always occupied by the web server.

Use the *Apply* button to save your settings.

4.7. Web-server logout

You will be logged out automatically after 10 minutes of inactivity. While you are logged in to the web server, it can't be accessed from any other computer. If another user tries to access the web server which is running an active session the error message will be shown on the login page: *Somebody with another IP has already logged in. Try again later.* In the meantime the *Power Manager* software (see section 6) can still access the PMS-LAN.

5. EnerGenie.com device interface

With your free personal account at EnerGenie.com website you will be able to access your PMS-LAN from anywhere in the world using any Internet-enabled device (desktop PC, laptop, smartphone etc). See section 4.2 above on how to register your PMS-LAN on the server and setup the connection.

5.1. Logging in

To login into your EnerGenie account just open the webpage www.energenie.com/user in your Internet browser and enter your login and password in the login window (see Figure 12 below).

Figure 12

- This page will automatically update itself and will keep showing you the time when your device was last seen online (the latest time when the device communicated with the server) and the status of each socket.
- Click your user name to change your account settings.
- Click the device to change its name and/or transfer it to another account.
- Click the sockets to change their names
- Click the On/Off buttons to switch the sockets on or off.

Note*:* the switching command can only be properly executed if the device is switched on, connected to the Internet and activated.
Note: the Last seen online status information lets you check if the device keeps communicating with the server.

6. POWER MANAGER SOFTWARE INSTALLATION

This is available on the Power Manager CD supplied with the unit.

6.1. Finding the PMS-LAN

Install *Power Manager* software v.4.0.0.0 (or higher) on a PC connected to your local network.

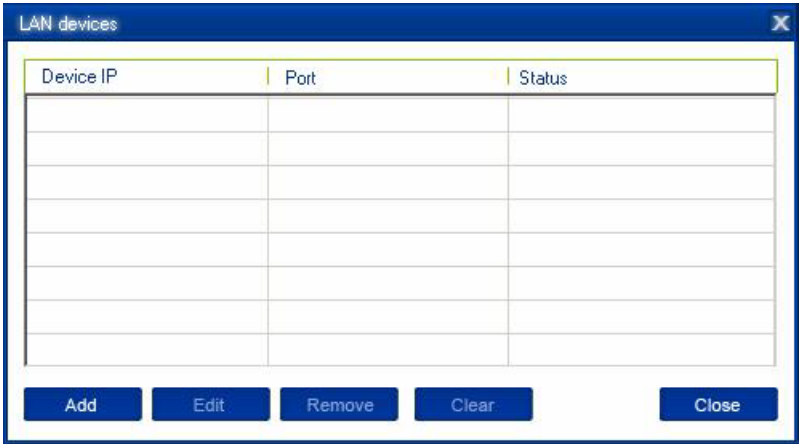
After a successful installation a socket icon  will appear in your system tray.

With a right mouse click on the socket icon you will get access to the *Power Manager* main menu. Choose *LAN devices* from the menu (see Figure 13 below).

Figure 13

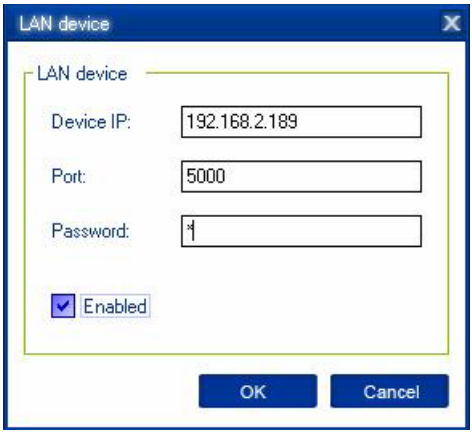
The *LAN devices* window (see Figure 14 below) will appear, click the *Add* button to add a new PMS-LAN device.

Figure 14



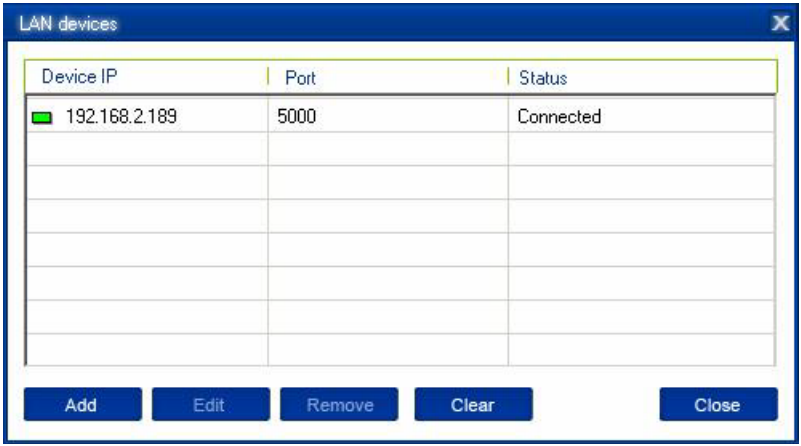
In the *Add LAN device* window (see Figure 15 below) enter the correct IP address, port number (5000 by default) and password (1 by default) as configured on the *Device settings* page (see section 4.6 above) of the web server. To disconnect from the device uncheck the option *Enable*, set this option again to regain the access. Click *OK* button to return to the *LAN devices* window.

Figure 15



Specified device should then appear with a green square next to it and *Connected* status in the *LAN devices* window (see Figure 16 below).

Figure 16



- To edit the LAN device, select it and click the *Edit* button, or just double click on the LAN device
- To remove the LAN device, select it and click the *Remove* button. You can select multiple LAN devices using *Ctrl* and *Shift* keys. You can also remove all LAN devices by clicking the *Clear* button

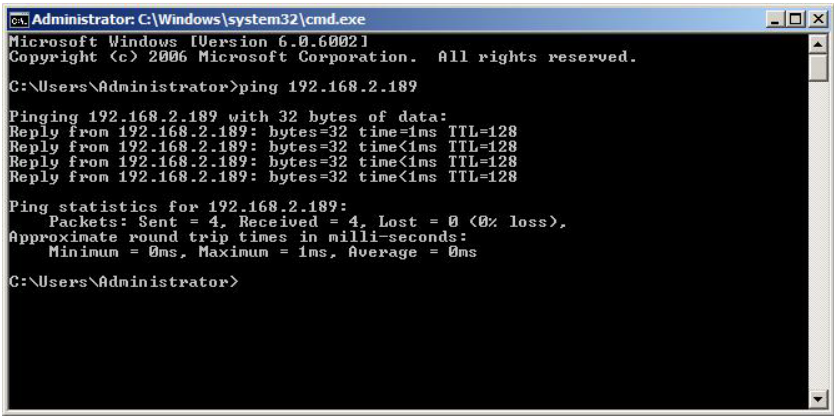
Hint: Use the popup menu which can be activated by the right mouse button click over the table.

If the status of PMS-LAN shows the device not to be *Connected* - it could be due to the following reasons:

- Incorrect IP/Port/Password specified in the *Add LAN device* window
- PC is not connected to the local network
- You are trying to access PMS-LAN from the PC which is not allowed to do so. Change PC IP address or change *IP filter* list in PMS-LAN hardware settings (see section 4.5 above)
- PMS-LAN is not connected to local network. To check if the PMS-LAN is on your local network using the ping test:
- Go to *Start->Run*
- Type *cmd*
- Type *ping <PMS-LAN IP Address specified in utility>* in the window which would appear

For instance, PMS–LAN with IP address 192.168.2.189 is connected to the local network. Then the *cmd* window will look as shown in the Figure 17 below:

Figure 17



• PMS-LAN is connected to local network (ping test is ok) but not responding. Reset PMS-LAN by pressing the *Reset button (A)* on the side control panel (see Figure 2 above) or switch it off and then on again (see Figure 1 above).

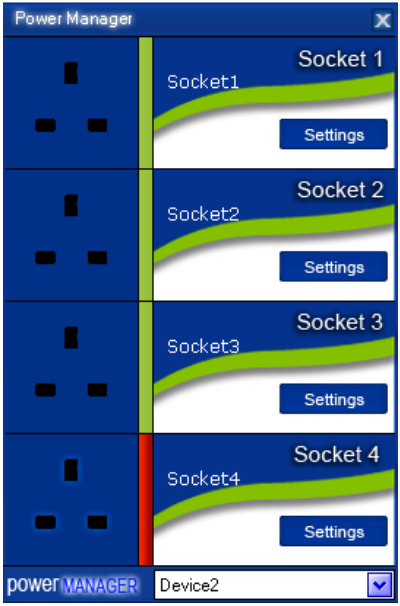
Note: The Reset button A (see Figure 2 above) can sometimes help if PMS-LAN can't be accessed or works abnormally. The device

will then be restarted. All the IP settings and device settings will remain the same as before, but the server time will be reset and all schedules will become outdated.

6.2. Managing the PMS-LAN

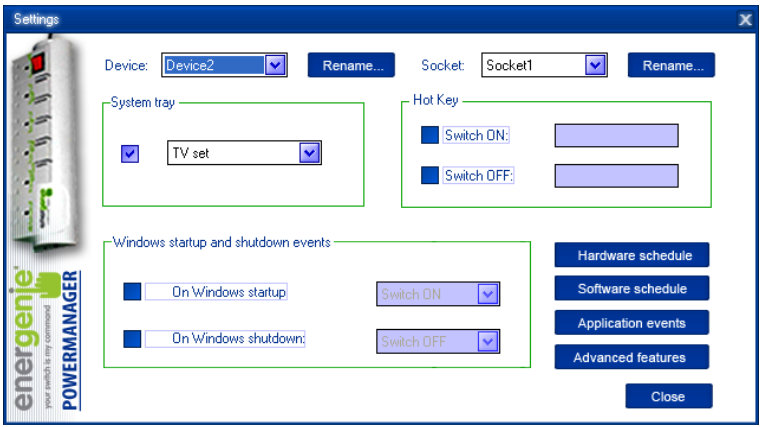
After successful connection, close *LAN devices* window. You can now start managing PMS-LAN via the Power Manager interface. Double click on the socket icon in the system tray or select Open from the popup menu (see Figure 13 above). You will get the window of the main control panel shown on the Figure 18below.

Figure 18


Power Manager
Socket 1
Socket1
Settings
Socket 2
Socket2
Settings
Socket 3
Socket3
Settings
Socket 4
Socket4
Settings
power MANAGER
Device2

Double clicking on a socket will switch it on and off (green color means the socket is switched off; red color means the socket is switched on). Click the *Settings button* for each socket to access the *Settings dialog box* (see Figure 19 below).

Figure 19



You can choose a different device and another socket from the *Device* and *Socket* drop down list-boxes.

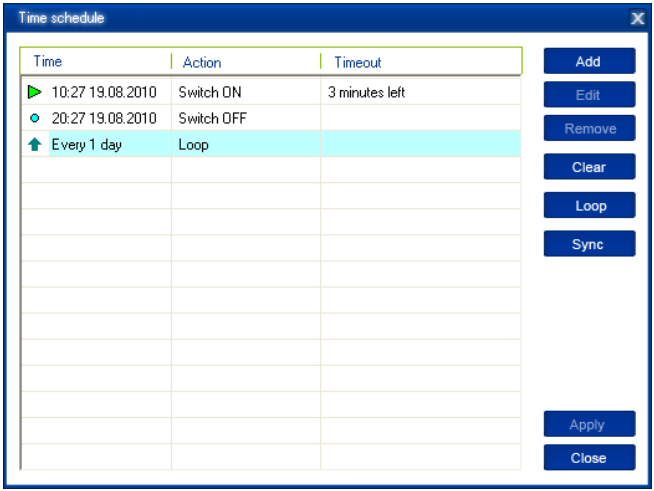
- It is possible name a device and socket (for example *Printer* or *Scanner*) using the *Rename* button
- Check the *System tray* checkbox if you want to put the icon of the socket into the system tray. You can choose the icon from drop down list box. The icon is a simple way to switch the device connected to the socket on/off or check the device status
- You can also assign a hot key to switch the socket on/off. Check the *Switch ON* and *Switch OFF* checkboxes and specify the hot keys
- To switch the socket on/off on Windows startup (wake up), check the *On Windows startup* checkbox and choose the required action
- To switch the socket on/off on the Windows shutdown (sleep), check the *On Windows shutdown* checkbox and choose the required action

7. Power Manager Core Features

7.1 Setting up the hardware schedule

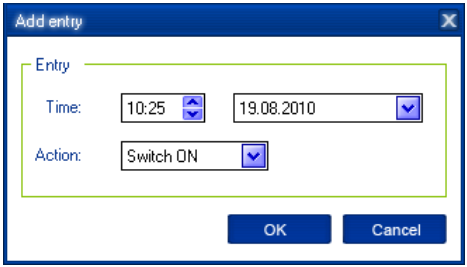
Using the *Hardware schedule* button available from the *Settings* window you can create the hardware timer schedule (see Figure 20 below). To add a new record, click the *Add* button.

Figure 20



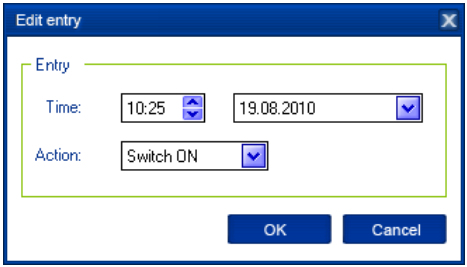
- The window *Add entry* will appear (see Figure 21 below). In the dialog box, specify the required time and the action

Figure 21



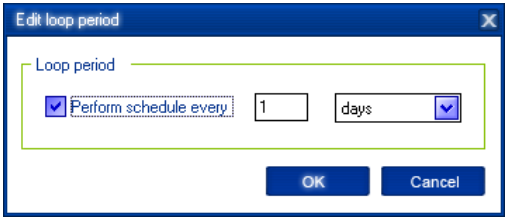
- To edit the record, select it and click the *Edit* button or just double click on the entry. The window Edit entry will appear (see Figure 22 below)

Figure 22



- To remove the record, select it and click the *Remove* button (see Figure 20 above). You can select multiple entries using *Ctrl* and *Shift* keys. You can also remove all entries from the schedule by clicking the *Clear* button (see Figure 20 above)
- To repeat your event (for example if you want to perform the same events every day) use the *Loop* button (see Figure 20 above) and specify the loop time period in the *Edit loop period* window (see Figure 23 below)

Figure 23



- After the schedule record has been created, click the *Apply* button (see Figure 20 above) to save the hardware timer schedule changes. In case of incorrect entries, these will be highlighted and an error message will appear. Click the *Apply* button again after correcting all the errors
- Use *Sync* button (see Figure 20 above) to synchronize device timer with PC clock. Note that after synchronization past entries will be removed from the schedule

HINT: Use the popup menu (see Figure 20 above) which can be activated by the right mouse button click over the table.

The following are the rules for creating a correct schedule:

- The new event time should be in the future
- There can not be a duplicate entry
- The total quantity of events can not exceed 16 per socket
- The total quantity of events also depends on the total execution period of the schedule
- The interval between the present and the last entry can not exceed 180 days
- Without loop the total execution period of the schedule can not exceed 215 days
- Loop period cannot exceed 180 days

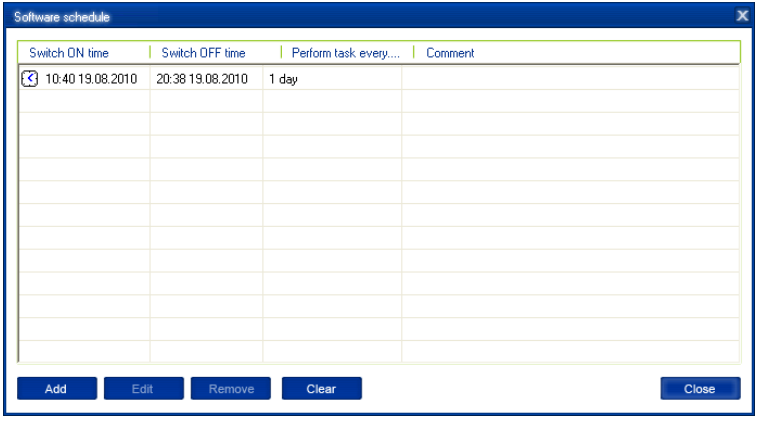
NOTE: If the device is powered off, the hardware schedule is still in the device memory and will be resumed when the power supply is restored. However the whole schedule will be then delayed by the duration of the power cut off. The PMS-LAN will start beeping indicating a hardware schedule problem. Press the “Silence” button once to turn the beeper off if you wish to ignore the delay in the schedule. Pressing the “Silence” button again after the beeps have been silenced will cause the schedule to be adjusted by one minute. Alternatively create and upload a new schedule using the ‘**Timer schedule**’ dialog box.

7.2 Setting up the software schedule

Use the *Software schedule* button available on the Settings window to create a software timer schedule (see Figure 24 below).

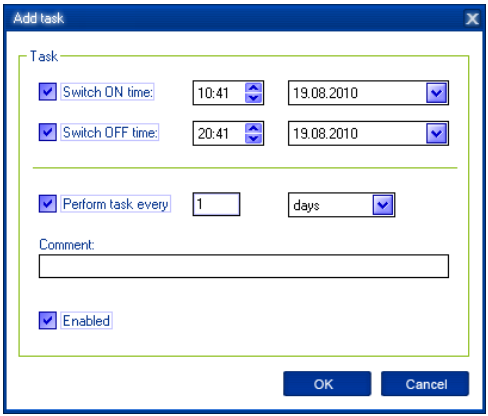
Note: the software timer schedule will only be executed if the managing computer is on and the Power Manager is launched.

Figure 24



- To add a new task, click the *Add* button. The *Add task* window will appear (see Figure 25 below)

Figure 25

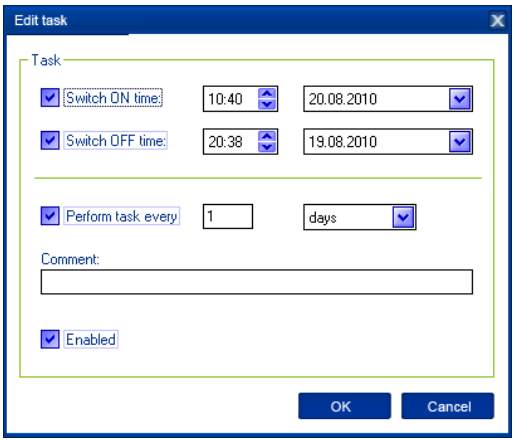


In the *Add task* window, check *Switch ON time* and/or *Switch OFF time* checkboxes and specify the time to switch the socked on and/or off. If you want the same event to be performed periodically, check *Perform task every* checkbox and specify the time interval. You can also add remarks about the task in the *Comment* field. To

disable the task, uncheck the *Enabled* checkbox and to enable the task again, re-check the checkbox.

- To edit the task, select it (see Figure 25 above) and click the *Edit* button or just double click on the task. The *Edit task* window will appear (see Figure 26 below)

Figure 26



- To remove the task, select it and click the *Remove* button (see Figure 20 above). You may select multiple tasks using *Ctrl* and *Shift* keys. You can also remove all tasks by clicking the *Clear* button

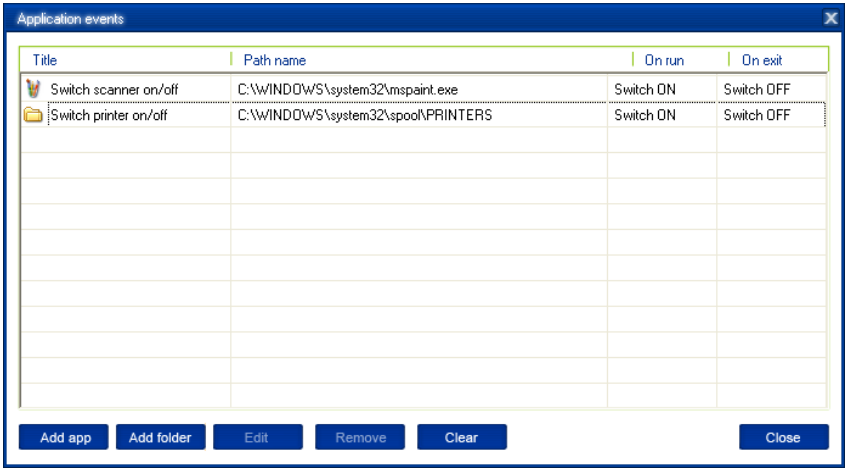
Hint: Use the popup menu which can be activated by the right mouse button click over the table (see Figure 25 above).

7.3 Setting up application events

Using the *Application events* window you can specify the socket events when a certain application is launched or closed down. You can also associate switching the sockets off or on with placement and removal of particular files in certain folders.

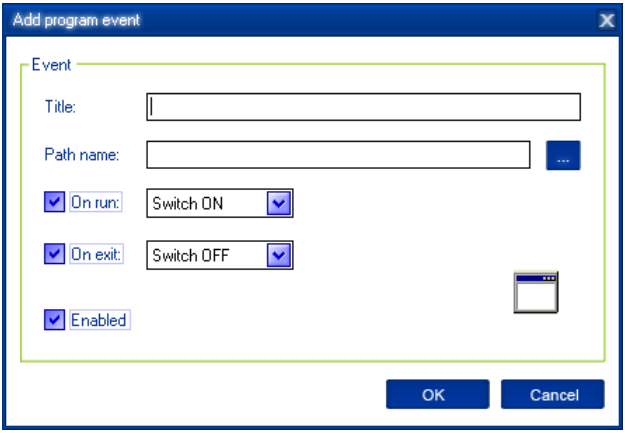
To use this feature push *Application events* button available from the Settings window (see section 6.1 above – Figure 19). You will get the following window (see Figure 27 below).

Figure 27



- To add a new program event, click the *Add app* button. The *Add program event* dialog will appear (see Figure 28 below)

Figure 28



Specify the application title and path to it using the *Browse (…)* button or typing it manually in the *Title* and *Path name* fields. If you use the *Browse (…)* button you can also select a shortcut to the application. In this case the application title and path name will be taken automatically via the shortcut if possible. After you have

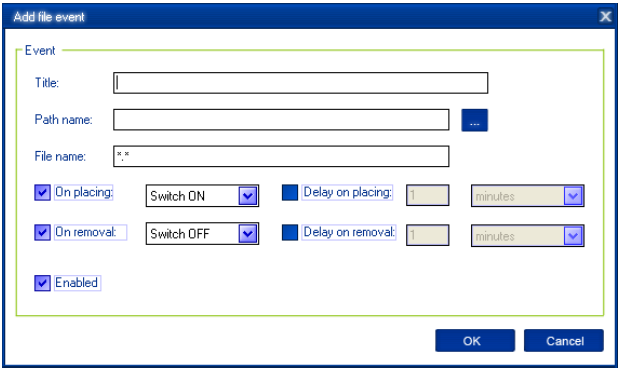
specified the application, check *On run* and/or *On exit* and choose the event (switch on or off).

Note: The *On run* event will take place when the first window of the selected application is opened. The *On exit* event will take place when the last window of the application is closed.

Hint: Your device is an advanced standby-killer. Using this feature you can for example switch your scanner on/off whenever Photoshop is started/closed.

- To add a new file event, click the *Add folder* button (see Figure 27 above). The *Add file event* window will appear (see Figure 29 below).

Figure 29



Specify the path to the folder you would like to monitor using the *Browse (…)* button or typing it manually in the *Path name* field. Specify the *File name* mask using wildcard characters: *, ?. Check then *On placing* and/or *On removal* checkboxes and select the event and delay.

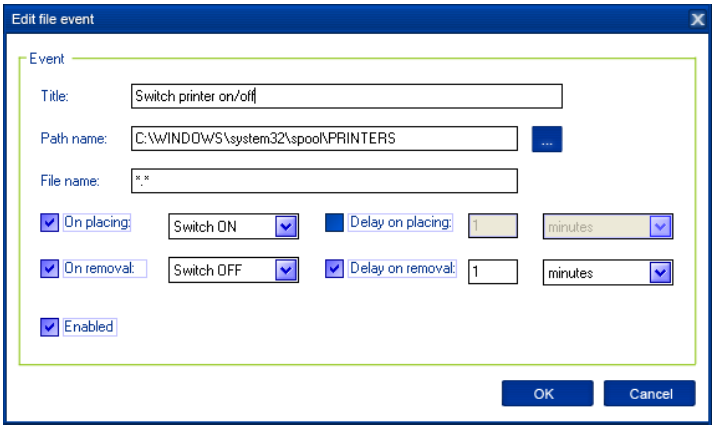
Note: The On placing event will take place when the first file matching the specified file name mask is placed into the specified folder. The On removal event will take place when the last file matching the specified file name mask is removed from the specified folder.

Hint: Your device is an advanced standby-killer. Use the *Add folder* button to assign *c:\\system32\\spool\\printers* folder to switch your printer on whenever you start printing and to switch it off again whenever you are ready with printing.

Hint: If you have several printers connected to the same computer, we suggest moving default spool directory of each printer to a separate location.

- To edit the event, select it and click the *Edit* button, or just double click on the event (see Figure 27 above). The *Edit file event* window will appear (see Figure 30 below)

Figure 30



- To remove the event, select it and click the *Remove* button (see Figure 27 above). You can select multiple events using *Ctrl* and *Shift* keys. You can also remove all events by clicking the *Clear* button

  HINT: Use the popup menu which can be activated by the right mouse button click over the table.

8. Power Manager advanced features

The following information is for advanced users which wish to have full access to the advanced features of the PMS-LAN. Click the *Advanced features* button available from the Settings window (see section 6.1 above). The following window will then appear (see Figure 31 below).

Figure 31

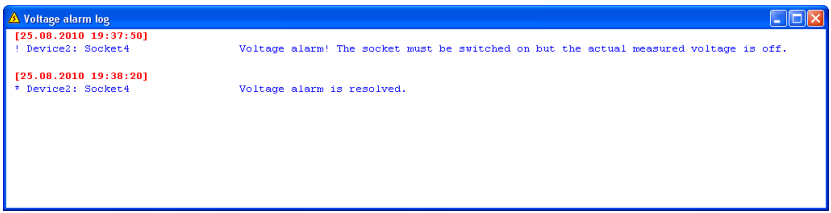
8.1. Processing the alarms

Whenever the actual measured voltage on the manageable socket deviates from the status set by your switching tasks, it is called a *Voltage alarm*.

The *Voltage alarm* can for example be caused by a blackout and will be resolved after power returns. The *Voltage alarm* can also be triggered if for any reason a switching task could not be carried out (switching malfunction).

The default action by an alarm is to record this event into a log file and show a popup *Alarm log* window (see Figure 32 below).

Figure 32



You might wish to process this situation in a different way, e.g. send an email message somewhere etc.

- Check the *Disable alarm log window* checkbox to disable the popup *Alarm log* window (applies to all devices)
- Check the *When alarm goes on* checkbox, then click the *Browse(…)* button to select the desired program to be launched whenever a voltage alarm is triggered
- Check the *When alarm goes off* checkbox, then click the *Browse(…)* button to select the desired program to be launched after the alarm status (see above) is resolved

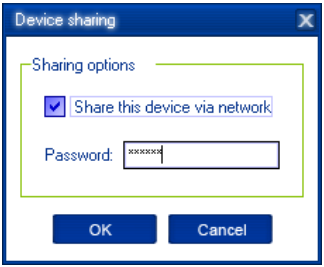
8.2. Setting up network devices

To avoid other users having to access the PMS-LAN via the IP address, it can be declared as a shared device on the server.

.

To **make** the PMS-LAN shared on your computer press the button *Device sharing...* in the *Advanced features* window (see Figure 31 above). The window *Device sharing* will appear (see Figure 33 below)

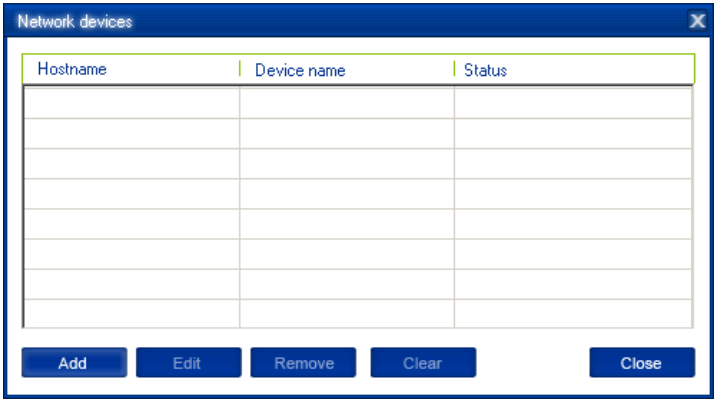
Figure 33



Set the checkbox *Share this device via network* if you want to enable the network access to the device (via this PC). To prevent unauthorized access to the device enter the access password in the field *Password*. **Note:** Port 6100 should be open. Contact your LAN administrator for further details.

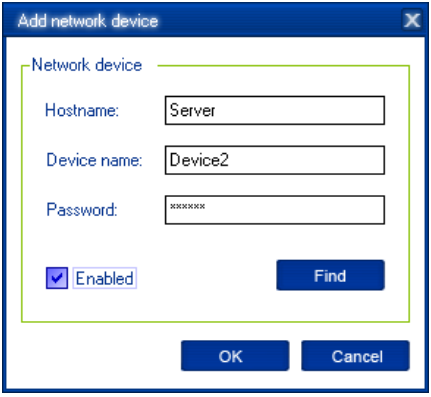
To be able to use this shared PMS-LAN on a client PC choose *Shared devices* from the *Main menu* (see Figure 13 above). You will get the following window (see Figure 34 below).

Figure 34



To add a new remote device, press the *Add* button. You will see the window *Add network device* (see Figure 35 below).

Figure 35

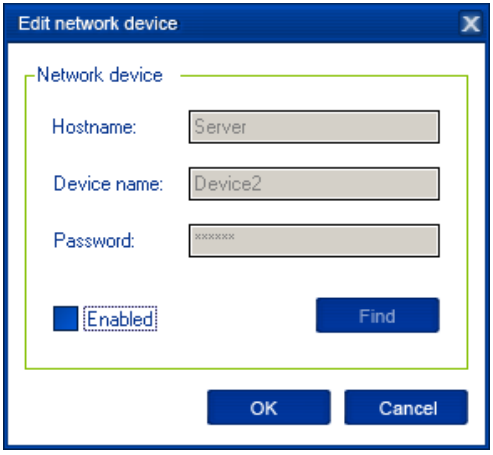


Enter the network name of the server which is connected to the PMS-LAN in the field *Hostname*. Enter the name of the target PMS-LAN in the field *Device name*. Enter access password in the field *Password*. To disconnect from the device uncheck the option *Enable*, set this option on again to regain the access. To locate the shared device in your local network, click the button *Find*. A dialog

box *Find network device* will appear. Choose the proper server and then the device and click *OK* button.

To edit the network device, select it and click the *Edit* button, or just double click on the network device (see Figure 34 above). *The Edit network device* window will appear (see Figure 36 below).

Figure 36



To remove the network device, select it and click the *Remove* button (see Figure 20 above). You can select multiple network devices using *Ctrl* and *Shift* keys. You can also remove all network devices by clicking the *Clear* button

HINT: Use the popup menu which is available with the right mouse button click over the table.

8.3. Managing the PMS-LAN via your own software

To let you switch the sockets from your own applications the following command line interface syntax is supported:

- `pm.exe -[on | off] -device name -socket name`

Examples:

- `"C:\Program Files\Energenie\Power Manager\pm.exe" -on -My EnerGenie -Socket1`
- `"E:\Utils\PM3\pm.exe" -off -My EnerGenie -Table lamp`

- Execute `pm.exe` with `-info` key (`pm.exe -info`) to get the complete information about the status of the current devices.

For each of the connected devices the following information will then be provided and placed into *Info.ini* file in the *Power Manager* folder:

- DeviceName - the user specified device name
- Socket#name, where # is replaced by a certain socket number - the user specified socket name
- Socket#SwitchState, where # is replaced by a certain socket number - TRUE, when the socket is switched on, FALSE, when the socket is switched off
- Socket#VoltageState, where # is replaced by a certain socket number - TRUE, when voltage presence on the socket is detected, FALSE, when there is no voltage on the socket;
  Example:

NOTE: Each use of this command line option totally overrides the data in Info.ini file.
NOTE: *Power Manager* should be active.

9. Troubleshooting

Problem	Solution
The circuit breaker is activated (tripped).	The load connected to the device is too high, some of the devices connected to the PMS-LAN should be disconnected and the circuit breaker should be reset.
The switching command is not carried out, the rocker switch and indicators are not lit.	There is no power supply to the PMS-LAN. Please, make sure the PMS-LAN is connected to the power supply and the rocker switch is switched on.
The status of PMS-LAN in Power Manager does not become *Connected*	Try to ping the device (see section 6.1 above)
PMS-LAN is connected to local network (ping test is ok) but not responding.	Reset PMS-LAN by pressing the *Reset button* on the side control panel (see Figure 2 above) or switch it off and then on again using the *Main rocker switch Z* (see Figure 1 above).
Connection to PMS-LAN is lost. It seems something is wrong with its IP address.	Make sure PMS-LAN is connected to LAN and switched on. Launch *Find PMS-LAN* utility. You can also try to

	use the *IP config (C)* button to let the device renew its IP address (see section 3.2 above)

Frequently Asked Questions

Q: What appliances can I use this extension lead for?

Answer: As it is 13A rated, it can be used with any household device.

Q: Can the PMS-LAN unit be used outside?

Answer: No, this product is for indoor use only.

Q: Can each socket be programmed individually?

Answer: Yes, there are four sockets that are controlled separately. The other two sockets are uncontrolled and always powered when the power switch is ON.

Q. Does the unit have to be connected to the computer at all times?

A: No the unit has internal hardware timers for each controlled socket that allows it to operate disconnected from the computer once it has been programmed.

Q. I am having trouble connecting to my device via the internet. It just says *Activated. Trying to connect* in the browser.

A: A problem with your DNS ip address settings could also be causing this. The DNS settings are set on the web interface page of the device. Please check the DNS address has a valid value – not 0.0.0.0. You can check this against your router. Typically you can log into your router via you browser using address 192.168.0.1 which is common. You need to know the router login id and password e.g. admin and ???? Most likely the DNS server address from your router will have been automatically inserted with your internet service provider's DNS server address.

Q. I can operate it ok over my own local network and via the power manager software. However, when I try connecting over the internet it doesn't connect. After I log in, it brings up a message that it is executing a command and nothing further happens.

A: There might be a conflict/problem with your router settings. Make sure that the router permits the transmission

of UDP pockets from device to the outside via port 1025 (Typical NAT configuration allows this). Please check the DNS server has been set up as in the previous question.