



User Guide

ePowerSwitch 8XM+

Version 4.0.0.1

www.neol.com

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Read before use!

Safety instructions

EN Safety instructions

The ePowerSwitch devices can only be installed by qualified people with the following installation and use instructions. The manufacturer disclaims all responsibility in case of a bad utilization of the ePowerSwitch devices and particularly any use with equipments that may cause personal injury or material damage.

- This equipment is designed to be installed on dedicated circuits that must have a circuit breaker or fuse protection.
- The electrical power sockets used to plug the power cords of the ePowerSwitch devices must be close to the ePowerSwitch devices and easily accessible.
- Check that the power cords, plugs and sockets are in good condition.
- The ePowerSwitch devices can only be connected to three-wire 230 VAC (50-60Hz) sockets.
- Always plug the ePowerSwitch devices into properly grounded power sockets (two poles plus ground).
- Never exceed 10 Amp total load for each group of 4 power outlets of an ePowerSwitch device.
- The ePowerSwitch devices are intended for indoor use only. Do NOT install them in an area where excessive moisture or heat is present.
- Always disconnect both power cords of each ePowerSwitch device if you want to intervene on it or on the equipment powered from the ePowerSwitch device.
- The power outlets of the ePowerSwitch devices are not circuit breakers! If you want to intervene on equipments connected to an ePowerSwitch device you must disconnect these equipments from the ePowerSwitch device.
- Do NOT attempt to disassemble the ePowerSwitch devices, they contain potentially hazardous voltages.
- The ePowerSwitch devices contain no user serviceable parts and repairs are to be performed by factory trained service personnel only.
- Always use a shielded cable for the Ethernet connection.

DE Sicherheitsanweisungen

Die Installation und Benutzung der ePowerSwitch-Geräte darf nur von qualifizierten Personen unter Beachtung der folgenden Anweisungen vorgenommen werden. Der Hersteller übernimmt keine Haftung bei unsachgemäßer Verwendung – insbesondere bei Einsatz mit Geräten, die zu Verletzungen oder Sachschäden führen können.

- Der Anschluss dieses Gerätes darf nur an Stromkreisen mit Schutzschalter oder Sicherung erfolgen.
- Der Anschluss der ePowerSwitch-Stromzufuhr muss sich in unmittelbarer Nähe zum Gerät befinden und leicht zugänglich sein.
- Die verwendeten Netzkabel, Stecker und Anschlüsse müssen sich in einem einwandfreien Zustand befinden.
- Die ePowerSwitch-Geräte dürfen nur an ein 230 VAC Stromkreis (50–60 Hz) angeschlossen werden.
- Es dürfen nur geerdeten Steckdosen mit ordnungsgemäßer Erdung (zwei Pole und Erde) für den Anschluss der ePowerSwitch-Geräte verwendet werden.
- Nie über 10 Ampere Gesamtlast für jede Vierer-Steckdosengruppe von einem ePowerSwitch-Gerät überschreiten.
- Die ePowerSwitch-Geräte sind nur für den Innengebrauch bestimmt und dürfen nicht in feuchten oder übermäßig heißen Umgebungen eingesetzt werden.
- Vor Änderungen oder Eingriffen am ePowerSwitch trennen Sie immer die betreffenden Netzkabel.
- Die Steckdosen des ePowerSwitch-Gerätes haben keine Schutzschalter-Funktion! Ziehen Sie deshalb immer beide Netzstecker des ePowerSwitch, bevor Sie an angeschlossene Geräte eingreifen wollen.
- ePowerSwitch-Geräte enthalten stromführende Teile mit gefährlichen Spannungen und dürfen nicht geöffnet oder zerlegt werden.
- Die ePowerSwitch-Geräte enthalten keine Teile die gewartet werden müssen und Reparaturen können nur durch beauftragte Fachkräfte durchgeführt werden.
- Verwenden Sie für den Ethernet-Anschluss immer ein abgeschirmtes Kabel.

FR Consignes de sécurité

Les équipements ePowerSwitch ne peuvent être installés que par un personnel qualifié. Le fabricant décline toute responsabilité en cas de mauvaise utilisation des équipements ePowerSwitch et tout particulièrement en cas d'utilisation avec des équipements pouvant occasionner des blessures corporelles ou des dommages matériels.

- Les équipements ePowerSwitch sont destinés à être installés sur un ou plusieurs circuits électriques dédiés protégés par des disjoncteurs ou des fusibles.
- Les prises secteur utilisées pour brancher les cordons secteur d'alimentation des équipements ePowerSwitch doivent être à proximité des équipements ePowerSwitch et facilement accessibles.
- Vérifiez que les cordons secteur d'alimentation, les connecteurs et les prises secteur sont en bon état.
- Les équipements ePowerSwitch ne peuvent être connectés qu'à des prises secteur à 3 conducteurs (2 prises + terre) 230 VAC (50-60Hz).
- N'utilisez que des prises secteur correctement mises à la terre (deux prises + terre) pour brancher les câbles secteur des équipements ePowerSwitch.
- Ne jamais dépasser un courant total de 10 Amp pour chacun des groupes de 4 prises des équipements ePowerSwitch.
- Les équipements ePowerSwitch sont destinés à une utilisation intérieure. NE les installez JAMAIS dans un endroit où règne une humidité ou une chaleur excessive.
- Débranchez TOUJOURS les 2 cordons secteur d'alimentation des équipements ePowerSwitch si vous souhaitez intervenir sur les équipements ePowerSwitch ou sur les appareils alimentés au travers des équipements ePowerSwitch.
- Les prises secteur des équipements ePowerSwitch ne sont PAS des coupe-circuits ! Si vous souhaitez intervenir sur les appareils alimentés au travers des équipements ePowerSwitch vous devez IMPERATIVEMENT débrancher ces appareils des équipements ePowerSwitch.
- Ne démontez JAMAIS l'ePowerSwitch, il y a risque de choc électrique !
- Les équipements ePowerSwitch ne contiennent pas de pièces nécessitant une maintenance. Les éventuelles réparations ne peuvent être faites que par un personnel habilité et formé par le fabricant.
- Utilisez toujours un câble blindé pour la connexion Ethernet.

Part I : Description

The **ePowerSwitch 8XM+** offers with its advanced cascading and the associated features enough space for larger infrastructures. It has 8 IEC320 power outlets which can be switched individually or as group.

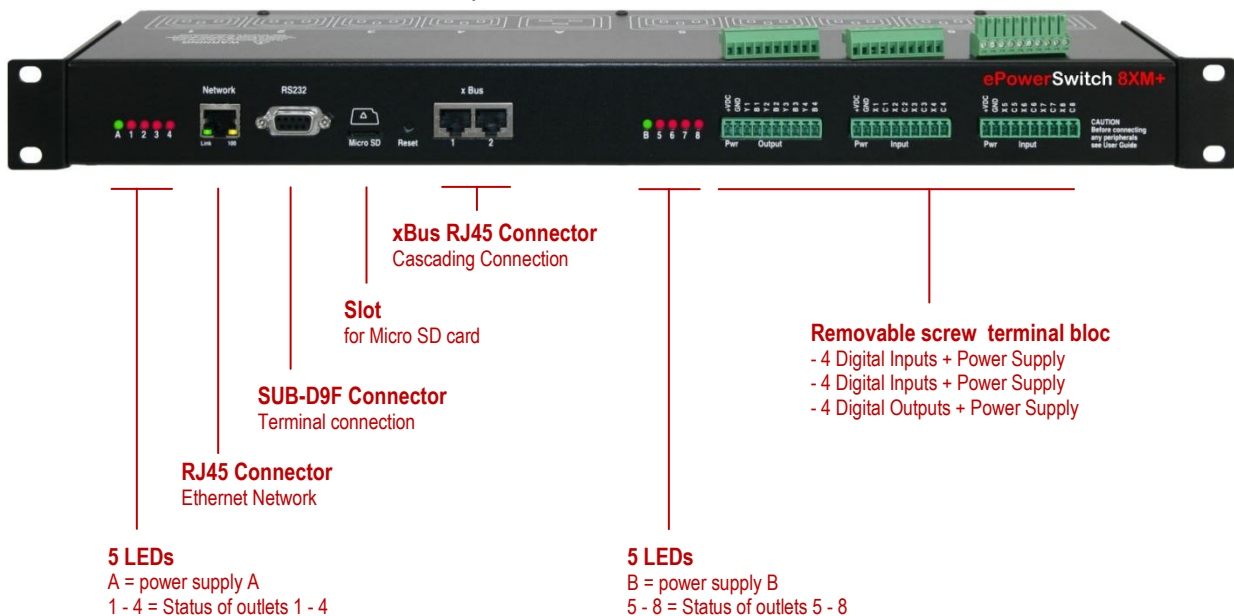
The web interface support HTTP or HTTPS (SSL) to provide maximum safety for management and control of the device. 8 digital inputs on the front side allow connection of sensors, detectors and 4 digital outputs allow to send out digital signals to Central Alarm Security Systems.

The dual xBus connection port (standard RJ45), available for extensions, allows to connect additional Power Switches, Digital Input and Output Modules, Sensors and Detectors. It also allows bus and star topology.

The **ePowerSwitch 8XM+** supports TCP/IP, HTTP, HTTPS, DHCP, SNTP, SNMP Traps, SMTP and Syslog.

Diagram

The front panel of the **ePowerSwitch 8XM+**



<p>A 1 2 3 4 (LEDs)</p> <p>A Green. Lights up when power applied on group A</p> <p>1 Red. Status of power outlet 1 (On/Off)</p> <p>2 Red. Status of power outlet 2 (On/Off)</p> <p>3 Red. Status of power outlet 3 (On/Off)</p> <p>4 Red. Status of power outlet 4 (On/Off)</p>	<p>B 5 6 7 8 (LEDs)</p> <p>B Green. Lights up when power applied on group B</p> <p>5 Red. Status of power outlet 5 (On/Off)</p> <p>6 Red. Status of power outlet 6 (On/Off)</p> <p>7 Red. Status of power outlet 7 (On/Off)</p> <p>8 Red. Status of power outlet 8 (On/Off)</p>
<p>Network (RJ45 Connector) Auto-Sensing 10/100 Mbits/sec Ethernet Port</p> <p>Link (LED) Off = Network connection not detected On = Network connection detected Flashing = the device is sending or receiving data over this port</p> <p>100 (LED) Off = 10 Mbits/sec network connection On = 100 Mbits/sec network connection</p>	<p>RS232 (SUB-D 9F Connector) RS232 serial port with DB-9 female connector. Pinout: 2 = TxD, 3 = RxD, 5 = Gnd) This interface can be used to configure Network Parameters, control Power</p> <p>Reset : Restart the device</p> <p>xBus (RJ45 Connector) The RJ45 connector is used for cascading up to 255 peripherals Maximal TOTAL line length: 200 meters</p>
<p>Micro SD Slot for Micro SD Card (up to 4 GB). Used to store log file and values of input currents if function activated.</p>	<p>I/O Dry contacts +VDC/GND : Power output/input Y1/B1 to Y4/B4 4 digital outputs for dry contact X8/C8 to X8/C8 8 digital inputs for dry contact</p>

The back of the ePowerSwitch 8XM+



Power input B
230 VAC – 16 Amp

4 Power outlets (Group B)
Power outlets 5 – 8
230 VAC max 10 Amp

Power input A
230 VAC – 16 Amp

4 Power outlets (Group A)
Power outlets 1 – 4
230 VAC max 10 Amp

Package list

The following items are included:

- 1 ePowerSwitch 8XM+
- 2 power cables, 230 V / 16 Amp, length 1.80 Meters
- 1 RJ45 M/M cable, 2 Meters
- 1 serial cable SUB-D 9 points M/F, 1.80 Meters
- 1 micro SD card (up to 4GB)
- 1 quick installation guide
- Micro Terminal
- 1 CD with
 - User Guide,
 - Quick Start Guide
 - Datasheet
 - Windows configuration program

Part II : Installation

Connection instructions

1. Use a shielded RJ45 network cable to connect your ePowerSwitch 8XM+ to the network.
2. Use appropriated three-wire power cords (two poles plus ground) to connect your electrical devices to the ePowerSwitch 8XM+ unit.
3. Plug the power cables into a grounded socket. The Power LEDs light on to confirm that power is on.
4. You can now configure the ePowerSwitch 8XM+ by following the indications of the chapter "Configuration of the ePowerSwitch 8XM+".

Part III : Configuration

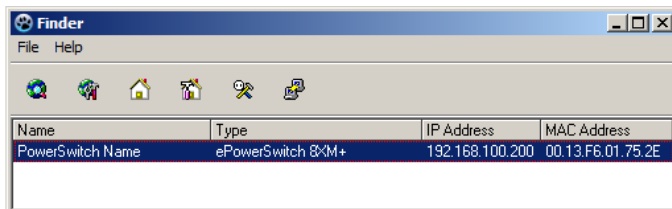
To use the ePowerSwitch 8XM+ on your network, you must first configure its network parameters. Ask your network administrator for the parameters to use.

There are three methods to configure the network parameters of the ePowerSwitch 8XM+:

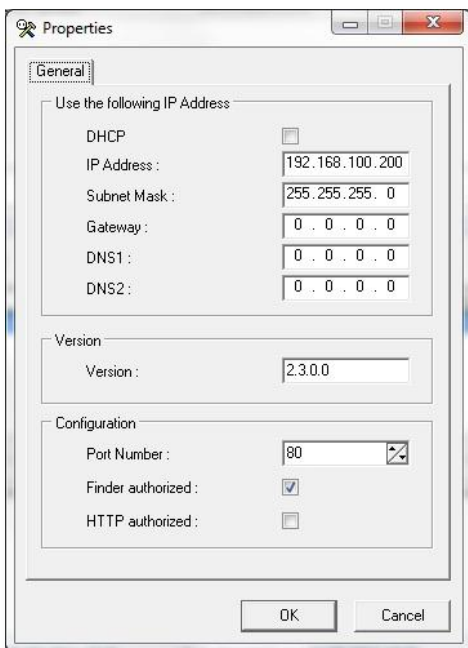
Chapter 1: Configuration through the LAN using the Finder program

It is the simplest and fastest configuration method if you use Windows as operating system. It allows to configure your ePowerSwitch 8XM+ through your local network even if its network parameters are not compatible with those of your PC.

1. Start the Finder.exe program contained on the CD-ROM.
2. Open the File menu and choose **SCAN** (or click on the first left button in the tool bar) to discover the ePowerSwitch 8XM+ connected on your LAN.



3. Open the File menu and choose **CONFIGURE** (or click on the second left button in the tool bar) to configure the network parameters.



This page enables to define all IP parameters of the ePowerSwitch 8XM+ device and displays the version of the Firmware. The HTTP protocol is enabled and the Finder program is authorized at factory settings.

To achieve the highest security level we suggest to disable the configuration using the Finder program after the first installation.

Note

DHCP:

Check this box is you want to obtain the IP address, the subnet mask and the default gateway for your ePowerSwitch 8XM+ via DHCP.

Use of DHCP (Dynamic Host Configuration Protocol) requires a DHCP host to be set up on the network.

Note

IP Address:

IP address of the ePowerSwitch 8XM+, default is 192.168.100.200.

Subnet Mask:

Subnet Mask of the ePowerSwitch 8XM+, default is 255.255.255.0.

Gateway:

Generally the address of your router, default is blank.

DNS 1:

Primary DNS (Domain Name Server), default is blank.

DNS 2:

Secondary DNS, default is blank.

Version:

Firmware version of the ePowerSwitch 8XM+

Port Number:

Port number: default is 80 (HTTP).

Finder authorized:

The Network parameters of the ePowerSwitch 8XM+ can be configured through a Local Area Network using the provided Finder Program. It is a simple and fast configuration method if you use Windows as operating system.

 **The Finder Program is enabled as default value. For security reasons we suggest to disable the Finder program after the first configuration.**

Chapter 2: Configuration through an RS232 Terminal connection

1. Use the provided RS232 cable to connect the ePowerSwitch 8XM+ to an available serial port of your PC.
2. Run a Terminal program such as Windows HyperTerminal or the Micro Terminal program on the CD.
3. Configure the appropriate serial port @ 9.600, n, 8, 1 and no flow control. If you use the Micro Terminal program on the CD (folder miscellaneous) you only have to choose the used serial port, this program is already configured at 9600,n,8,1.
4. On your computer, press <ENTER> until the menu appears on your screen.
5. Press the "M" on your keyboard and follow the menu to configure the network parameters of your ePowerSwitch 8XM+.

Configuration menu

```

-----
NETWORK INTERFACE PARAMETERS:
IP address on LAN is 192.168.100.200
LAN interface's subnet mask is 255.255.255.0
IP address of default gateway to other networks is 0.0.0.0
IP address of primary DNS server is 0.0.0.0
IP address of secondary DNS server is 0.0.0.0
MISCELLANEOUS:
HTTP Port is 80
Finder program is enabled
HARDWARE PARAMETERS:
Address is 00.13.F6.01.3C.80
-----

```

Special commands (type /? or /Help)

- /viewlog Display the log file
- /initlog Clear the log file
- /initadminaccount Restore default administrator password
- /restorefactconf Restore to factory default settings
- /help or /? Display this help

Serial port configuration

Connector: SUB-D9 female connector

Pin configuration

Pin 2 = TxD (transmit data to the PC)
Pin 3 = RxD (receive commands)
Pin 5 = GnD

RS232 parameters

Speed: 9600 bauds
Parity: No
Format: 8 bits
Stop bit: 1
Flow control: no

The serial cable provided with the ePowerSwitch is a standard straight extension cable with DB9 connectors. This cable is intended to connect the serial port of the ePowerSwitch to a serial port of a PC.

Restore to default factory settings

If you want to restore the ePowerSwitch to factory settings, you can reset it to default value using following procedure:

1. Use the supplied RS232 cable to connect the ePowerSwitch to an available serial port of your PC.
2. Run a terminal program such as Windows HyperTerminal or the Micro Terminal program on the CD.
3. Configure the appropriate serial port with the following settings @ 9.600, n, 8, 1 and no flow control. If you use the Micro Terminal program on the CD (folder miscellaneous) you only have to choose the used serial port, this program is already configured at 9600,n,8,1.
4. On your computer, press <ENTER> until the menu appears on your screen.
5. Type in following command:
/restorefactconf (the command MUST be preceded with a slash).

Now you can log in using **admin** as Login name and password.

The login values are case sensitive.



Restore to default administrator password

If you have forgotten your administrator password, you can reset it to default value using following procedure:

1. Use the supplied RS232 cable to connect the ePowerSwitch to an available serial port of your PC.
2. Run a terminal program such as Windows HyperTerminal .
3. Configure the appropriate serial port with the following settings @ 9.600, n, 8, 1 and no flow control.If you use the MicroTerminal program on the CD (folder miscellaneous) you only have to choose the used serial port, this program is already configured at 9600,n,8,1.
4. On your computer, press <ENTER> until the menu appears on your screen.
5. Type in following command:
/initadminaccount (the command MUST be preceded with a slash).

The system answers:

System is restarting...

System Started

Now you can log in using **admin** as Login name and password.

The login values are case sensitive.



Chapter 3: Configuration through the LAN using a standard Browser

During the first installation, change temporarily the network settings of your PC according to the default network settings of the ePowerSwitch 8XM+.

Factory network settings of the ePowerSwitch 8XM+:

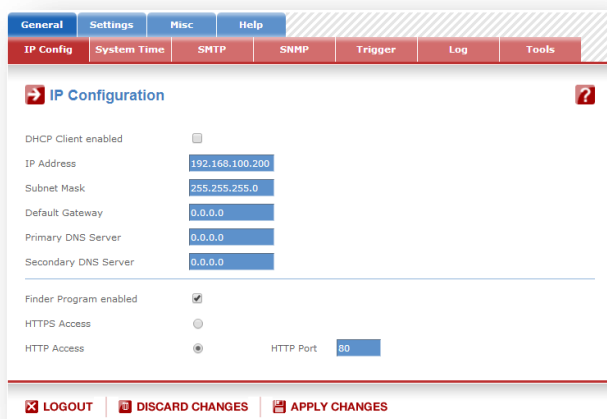
IP Address: **192.168.100.200** - Port: **80**

Gateway: **255.255.255.0**

1. Open your Web browser and type following IP address: <http://192.168.100.200/sysadmin.htm>
2. Enter the administrator name and password (default for both = **admin**)
3. The home page appears, allowing you to configure all settings of your ePowerSwitch 8XM+.

General / IP configuration

This page enables you to define all the IP parameters of the ePowerSwitch 8XM+.



DHCP Client enabled:

Check this box if you want to obtain the IP address, the subnet mask and the default gateway for your ePowerSwitch 8XM+ via DHCP. Factory default setting for this option is disabled.

Use of DHCP (Dynamic Host Configuration Protocol) requires a DHCP host to be set up on the network.

IP Address:

IP address of the ePowerSwitch 8XM+, default is 192.168.100.200.

Subnet Mask:

Subnet Mask of the ePowerSwitch 8XM+, default is 255.255.255.0.

Default Gateway:

Generally the address of your router, default is blank.

Primary DNS Address:

Primary DNS (Domain Name Server), default is blank

Secondary DNS Address:

Secondary DNS, default is blank

Finder Program enabled:

The Network parameters of the ePowerSwitch 8XM+ can also be configured through a Local Area Network using the provided Finder Program. It is a very simple and fast configuration method if you use Windows as operating system.

The Finder Program is enabled as default value.

!!!For security reasons we suggest to disable the Finder program after the first configuration.

HTTP Port:

Port number: default is 80.

LOGOUT:

Click "Logout" at the bottom of the page to exit the session without saving changes.

DISCARD CHANGES:

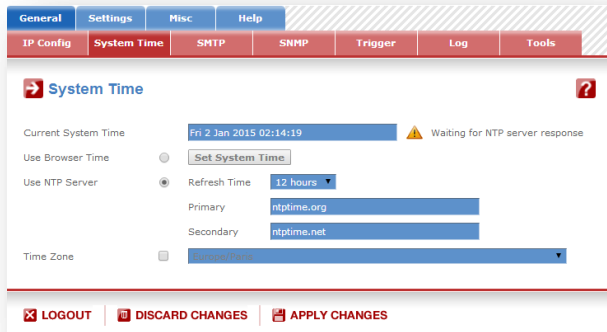
Click "Discard Changes" at the bottom of the page to discard all the changes you have made on this page.

APPLY CHANGES:

Click "Apply Changes" at the bottom of the page to save changes.

General / System time

The system time of the ePowerSwitch 8XM+ is used for synchronizing scheduling actions and to timestamp SNMP traps, Syslog information and internal logs. The system time can be set manually with the browser time of the connected computer or can be automatically synchronized with one or two NTP timeservers.



Current System Time:

This field shows the current system time of the ePowerSwitch 8XM+.

Note **As the system time is displayed through the browser, a small difference (1 to 2 sec) can appear as compared to the exact hour. The system time is nevertheless correct.**

Use Browser Time:

If you want to set the system time using the current Browser time of your PC, select this option and click on the "Set System Time" button.

Use NTP Server:

If you want to set the system time using an NTP timeserver, select this option, choose a refresh interval and enter the IP address of the timeserver you wish to use in the "Primary" field. The address of a second timeserver can be specified in the "Secondary" field. The secondary timeserver is optional and is used only if the primary timeserver is not available.

Note **You can enter either the hostname (in that case you must have specified a DNS server on the IP configuration page) or the IP address of an NTP server. NTP uses port 123/UDP.**

Time Zone:

Set the time zone corresponding to your location. The system clock will subsequently show local time. Without setting this, the system clock will show UTC/GMT time. Setting a time zone is only relevant if you are synchronizing with an NTP server.

LOGOUT:

Click "Logout" at the bottom of the page to exit the session without saving changes.

DISCARD CHANGES:

Click "Discard Changes" at the bottom of the page to discard all the changes you have made on this page.

APPLY CHANGES:

Click "Apply Changes" at the bottom of the page to save changes.

General / SMTP

This page is used to configure the SMTP mail transfer protocol.

To send emails, you will need an SMTP server on the network and you will have to configure following parameters:



SMTP Client enabled

Check this box if you want to enable the SMTP protocol and send emails.

SMTP Server Address

Enter either the hostname or the IP address of your mail server.

If you use an hostname, the system will have to resolve the hostname and you must configure a Default Gateway and at least one DNS Server on the Network Settings Page (General/IP Config page).

SMTP Port

SMTP Communication port to use, default is 25.

From (email Address)

In this field, enter the email address that messages will appear to come from. The name can be from 1 to 64 characters long, and can contain alphanumeric characters. This should be a valid address (generally servers reject messages that don't have a valid from address).

Authentication enabled

Check this box if you want to enable Authentication.

Server Login

SMTP Server User Name.

Server Password

SMTP Server User Password.

Server Timeout (sec)

Timeout used to send the email, the value can be set between 1 and 60 sec.

Maximum Times to Resend

Maximum times the email can be resent, the value can be set between 1 and 9 times.

Resend Interval (sec)

Resend Interval, the value can be set between 0 and 65535 sec.

LOGOUT

Click "Logout" at the bottom of the page to exit the session without saving changes.

DISCARD CHANGES

Click "Discard Changes" at the bottom of the page to discard all the changes you have made on this page.

APPLY CHANGES

Click "Apply Changes" at the bottom of the page to save changes.

General / SNMP

The ePowerSwitch 8XM+ provides a built-in SNMP (Simple Network Management Protocol) agent, which enables you to manage the ePowerSwitch 8XM+ through SNMP-based network management systems. The ePowerSwitch 8XM+ MIB file enables to remotely read out the status of all power outlets and the values of all sensors (temperature, humidity, ambient light). It also enables to control individually all power outlets and all groups of power outlets. The MIB file is stored on the ePowerSwitch 8XM+ and can be downloaded from the General / Tools Page.



SNMP enabled:

Check this box if you want to enable the SNMP protocol.

Contact:

In this field, enter the name you want to give to the Contact field. The name can be from 1 to 64 characters long, and can contain alphanumeric characters. Default name is "contact".

Name:

In this field, enter the name you want to give to the Name field. The name can be from 1 to 64 characters long, and can contain alphanumeric characters. Default name is "name".

Location:

In this field, enter the name you want to give to the Location field. The name can be from 1 to 64 characters long, and can contain alphanumeric characters. Default name is "location".

Read Community:

In this field, enter the name you want to give to the Read Community field. The name can be from 1 to 64 characters long, and can contain alphanumeric characters. Default name is "public".

Write Community:

Check this box if you want to be able to control the power outlets through a MIB browser. In the following field, enter the name you want to give to the Write Community. The name can be from 1 to 64 characters long, and can contain alphanumeric characters. Default name is "private".

Trap Community:

Check this box if you want to configure the ePowerSwitch 8XM+ SNMP agent to send traps to a community. In the following field, enter the name you want to give to the Trap Community. The name can be from 1 to 64 characters long, and can contain alphanumeric characters. Default name is "trap".

Trap Destination 1:

Check this box and enter the primary SNMP Server address the traps will be sent to.

Trap Destination 2:

Check this box and enter the secondary SNMP Server address the traps will be sent to.

LOGOUT:

Click "Logout" at the bottom of the page to exit the session without saving changes.

DISCARD CHANGES:

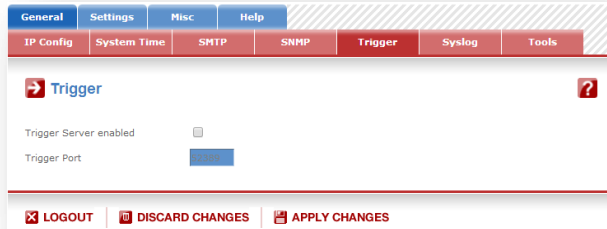
Click "Discard Changes" at the bottom of the page to discard all the changes you have made on this page.

APPLY CHANGES:

Click "Apply Changes" at the bottom of the page to save changes.

General / Trigger

Your Device has the ability to send a request over IP to another Device. This request can then be used to trigger an Action on the remote Device. Depending on your other Device, you could for instance switch on a Power Outlet, close or open a Relay or send an SNMP Trap, an email or a Syslog message.



Trigger Server enabled

Check this box if you want to enable the Trigger function.

The Trigger function must be activated on both the emitter device (your Device) and the target Device.

Trigger Port

Port number used by the Trigger function, default is 52389.

The Trigger function must be activated on both the emitter device (your Device) and the target Device and both must use the same Port number.

LOGOUT

Click "Logout" at the bottom of the page to exit the session without saving changes.

DISCARD CHANGES

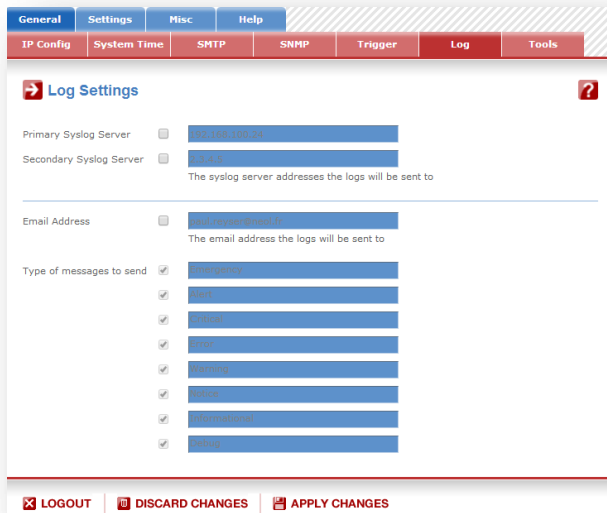
Click "Discard Changes" at the bottom of the page to discard all the changes you have made on this page.

APPLY CHANGES

Click "Apply Changes" at the bottom of the page to save changes.

General / Log

This page allows to define the address of one or two Syslog Servers.



Primary Syslog Server

Select this Checkbox and specify the IP address or the Hostname of your Primary Syslog Server.

If you use a hostname, the system must be able to resolve queries for the hostname into IP address, so you must configure a Default Gateway and at least one DNS Server on the Network Settings Page (General/IP Configuration page).

Secondary Syslog Server

In this field you can define the IP Address of a secondary Syslog Server. You can enter either the hostname or the IP address of a Syslog server.

LOGOUT

Click "Logout" at the bottom of the page to exit the session without saving changes.

DISCARD CHANGES

Click "Discard Changes" at the bottom of the page to discard all the changes you have made on this page.

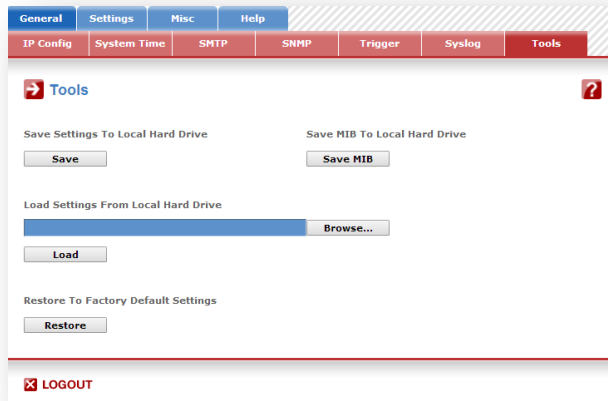
APPLY CHANGES

Click "Apply Changes" at the bottom of the page to save changes.

General / Tools

This page enables you to:

- download and save the current settings of your ePowerSwitch 8XM+ on your PC,
- upload an existing configuration file to your ePowerSwitch 8XM+,
- restore the factory settings,
- download the ePowerSwitch 8XM+ MIB file on your PC.



Save:

Click this button to save the current system settings onto your local hard drive.

Load:

Click this button and select a settings file you want to download to the ePowerSwitch 8XM+.

Restore:

Click this button if you want to restore the factory default settings.

Save MIB:

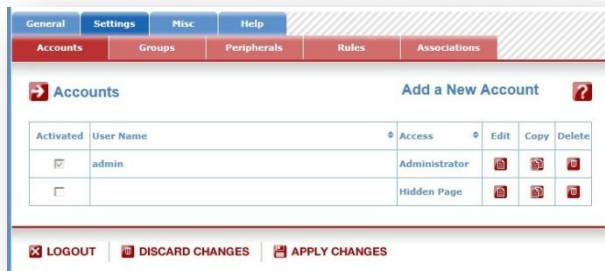
Click this button if you want to download the ePowerSwitch 8XM+ MIB file onto your local hard drive.

LOGOUT:

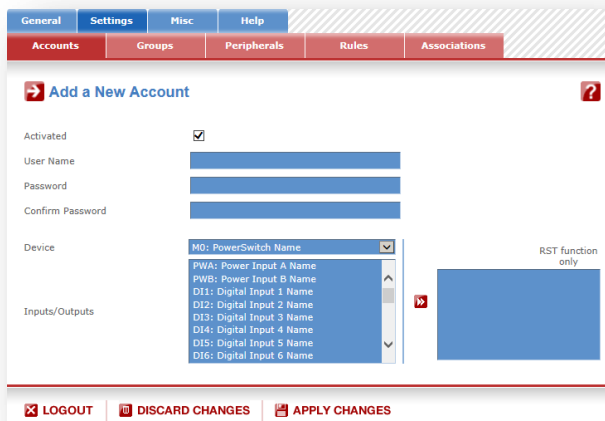
Click "Logout" at the bottom of the page to exit the session without saving changes.

Settings / Accounts

This page is used to create, activate, deactivate, modify and delete up to 40 accounts.



- To activate or deactivate an account, check or uncheck the corresponding checkbox.
- To modify an account, click on "Edit" next to the corresponding account.
- To delete an existing account, click on "Delete" next to the corresponding account.
- To create an account, click on "Add a New Account" on the right side of the page.
A new page appears, allowing you to set all the parameters of the account.



Activated

This check box must be checked to activate the Account. It enables to deactivate temporarily this account while keeping all its settings for a later use.

User Name:

In this field, enter the name you want to give to the user. The name can be from 1 to 32 characters long, and can contain alphanumeric characters.

Note Do not use quotes or special characters in labels!

Password:

In this field, enter the password you want to give to the user. The password can be from 4 to 32 characters long, and can contain alphanumeric characters.

Confirm Password:

In this field, enter the password again.

Groups:

This field is used to add or remove groups to the current account.

To add Groups to the current account, press the Ctrl key and click on the displayed Groups. The selected Groups are marked dark blue and their IDs are listed at the right side of the Groups field.

Note This field appears only if you have already created at least one group (Settings/Groups Tab).

Device:

In this drop-down list, choose a device from which you want to add Inputs or Outputs to the current account.

Inputs/Outputs:

This field is used to add/remove Inputs or Outputs to/from the current account.

To add Inputs or Outputs to the current account, press the Ctrl key and click on the Inputs/Outputs of the device selected in the previous field. The selected Inputs/Outputs are marked dark blue and their IDs are listed at the right side of the Input/Output field.

The ePowerSwitch 8XM+ supports number of peripherals which are clearly identified by specific ID Codes.

RST function only

With this function you can create an account which enables ONLY to restart specified power outlets (Buttons ON and OFF do no longer appear). This function is very helpful if you have to restart the router used to access to your Power Switch. It avoids to switch the router Off with no possibility to switch it On again. After having pressed on the Restart button, the router will always automatically be switched On by the Power Switch.

LOGOUT:

Click "Logout" at the bottom of the page to exit the session without saving changes.

DISCARD CHANGES:

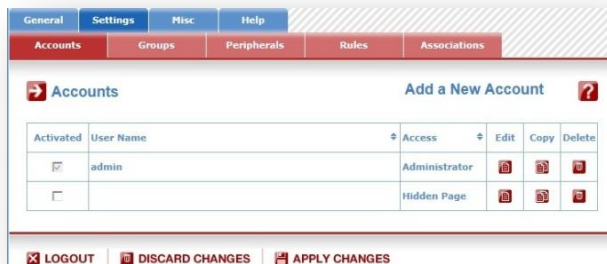
Click "Discard Changes" at the bottom of the page to discard all the changes you have made on this page.

APPLY CHANGES:

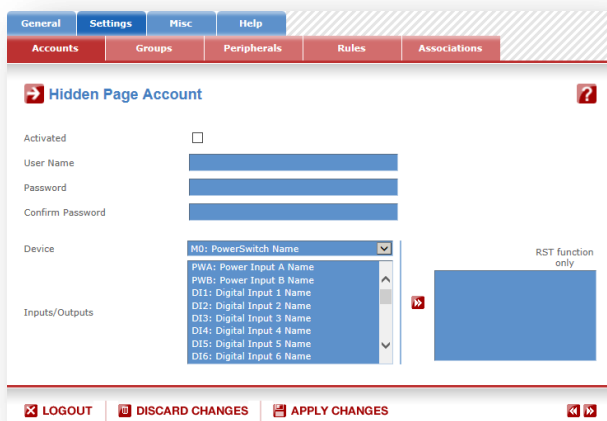
Click "Apply Changes" at the bottom of the page to save changes.

Settings / Accounts / Hidden Page account

This account is intended for developers who want to implement the power outlet control in own programs. If activated, they can access to a special page named hidden.htm and control individually the power outlets using simple commands.



- To activate or deactivate this account, check or uncheck the corresponding checkbox.
- To modify the Hidden page account, click on "Edit" next to the corresponding account. A new page appears, allowing you to set all the parameters of the account.



Activated

This check box must be checked to activate the Hidden Page Account. It enables to deactivate temporarily this account while keeping all its settings for a later use. The Hidden Page Account cannot be deleted.

User Name

In this field, enter the name you want to give to the Hidden Page Account.

The user name can be up to 32 characters long and contain alphanumeric characters.



Do not use quotes or special characters in labels!

Password

In this field, enter the password you want to give to the Hidden Page Account.

The password can be up to 32 characters long and contain alphanumeric characters.

Confirm Password

In this field, enter the password again for confirmation.

Groups



This field appears only if at least one group has already been created. To create a group, go to the Settings/Groups Page.

- To add an existing group of Power Outlets to the current account, select the group you want to add in the left field and click on the Arrow button, the group will then appear in the right field.


- To remove a Group from the current account, select the group you want to remove in the right field and click on the Arrow button, the group will then appear in the left field.



Each group is clearly identified by its own ID (G1, G2, G3...) followed by the name given during the configuration. If the symbol "!" appears between brackets behind the ID Code that means that the Group is not activated. To activate it, go to the "Settings/Groups" page.

Device

In this drop-down list, choose the device from which one you want to add Inputs or Outputs to the current account.

-  **Note**
- **Only properly connected devices or devices which already have been connected to the Power Switch appears in this field.**
 - **Each peripheral is clearly identified by its own ID followed by the name given during the configuration. Behind the ID can appear a character between brackets which has following meaning:**
 - **"!" means that the corresponding device is properly connected to the Power switch but not activated. To activate it, go to the "Settings/Peripherals" page.**
 - **"X" means that the corresponding device has already been connected to the Power switch but is currently no longer connected to the Power Switch.**

Inputs/Outputs

- This field is used to add/remove Inputs or Outputs to/from the current account.
- To add an Input or Output to the current account, select the Input / Output you want to add in the left field and click on the Arrow button, the selected Input / Output will then appear in the right field.
- To remove an Input or Output from the current account, select the Input / Output you want to remove in the right field and click on the Arrow button, the selected Input / Output will then appear in the left field.

Accessing to the Hidden Page Account

To be able to access to the Hidden Page, you must have configured the Hidden Page Account and activated it. For the first tests, simply check the Activated check box, start your browser and type into your browser's address bar the IP address of your power switch followed by the name of the hidden page.

Example: if the IP address of your Power Switch is 192.168.100.200, type in:

<http://192.168.100.200/hidden.htm> followed by <ENTER>.

Your Web browser will now display:

```
Hidden Page
21 Jul 2011 01:50:03
Version: 2.3.0.0
```

Controlling Power Outlets

Only Power Outlets which have been selected can be controlled over the Hidden Page. To select Power Outlets, go to the "Settings/Accounts" page and edit the Hidden Page Account. In the Inputs/Outputs field, selected the Power Outlets you want to control and click on the Arrow button next to the Inputs/Outputs field. The selected Power outlets appear in the right field, click on Apply Change to validate the configuration.

Example: if you have selected all 4 power Outlets and the IP address of your Power Switch is 192.168.100.200, type in:

<http://192.168.100.200/hidden.htm> followed by <ENTER>.

Your Web browser will now display:

```
Hidden Page
21 Jul 2011 02:29:01
Version: 2.3.0.0
M0:01=On
M0:02=On
M0:03=On
M0:04=On
```

Each Power Outlet support individually 3 commands: On, Off and Restart using following syntax:

M0:0x=[ON], [OFF], [RESTART]

M0: ID of your Power Switch
Ox: Outlet number of your Power Switch
ON: ON command
OFF: OFF command
RESTART: Restart command

The first command must be preceded by a "?"

Commands can be concatenated using the character "&"

Commands can be specified in upper case, lower case or mixed case

The Hidden Page functionality also allows to control peripherals connected to the A-xBus (all sensors, Digital

I/O Modules, Power Switches, Current probe...).

Example: if you want to switch to OFF the Power Outlet #1 and 3, type in:
<http://192.168.100.200/hidden.htm?M0:O1=OFF&M0:O3=OFF>

Your Web browser will now display:

```
Hidden Page
21 Jul 2011 02:42:08
Version: 2.3.0.0
M0:O1=Off
M0:O2=On
M0:O3=Off
M0:O4=On
```

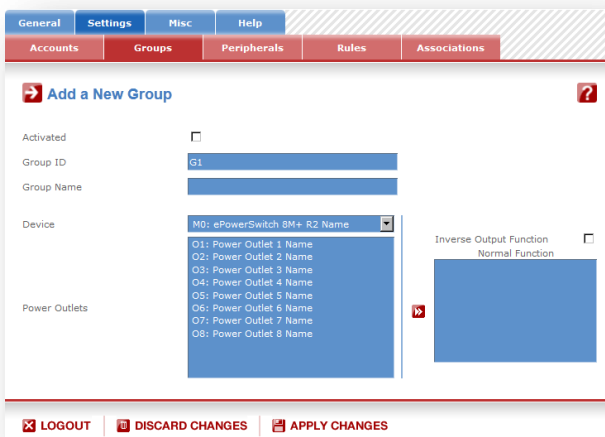
Example: if you want to switch to OFF the Power Outlet #3 and 6 with an user name and password, type in:
<http://username:password@192.168.100.200/hidden.htm?M0:O3=OFF&M0:O6=OFF>

Settings / Groups

This page is used to create, modify and delete groups of power outlets which can be controlled by the ePowerSwitch 8XM+. This functionality is particularly useful if you have to control the power supply of devices using redundant power supplies. You can create groups including several power outlets distributed on several ePowerSwitch 8XS devices.



- To delete an existing group, click on "Delete" of the corresponding device.
- To add or remove power outlets to/from an existing group, click on "Edit" of the corresponding device.
- To deactivate a Group, uncheck the box "Activated" of the corresponding group.
- To add a new group, click on "Add a New Group" on the right side of the page. A new page appears, allowing you to set all parameters of the group.



Activated

This check box must be checked to activate the group. It enables to deactivate temporarily a group of Power outlets while keeping all its settings for a later use.

Group Id:

The ePowerSwitch 8XM+ automatically creates an ID Code to clearly identify each group of power outlets. All the ID Codes used to identify groups start with the letter "G".

Group Name:

In this field, enter the name you want to give to the selected group. The name can be from 1 to 32 characters long, and can contain alphanumeric characters.

Do not use quotes or special characters in labels!

Device:

In this drop-down list, choose an ePowerSwitch from which you want to add power outlets to the selected group.

Power Outlets:

This field is used to add and remove power outlets to/from the group.

- To add power outlets to the group, press the Ctrl key and click on the power outlets of the ePowerSwitch selected in the field above. The selected power outlets are marked dark blue and their names are listed at the right of the field "Power Outlets".
- To remove a power outlet from the group, press the Ctrl key and click on the power outlet you wish to remove.

LOGOUT:

Click "Logout" at the bottom of the page to exit the session without saving changes.

DISCARD CHANGES:

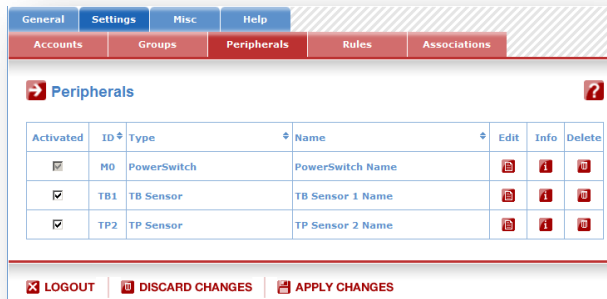
Click "Discard Changes" at the bottom of the page to discard all the changes you have made on this page.

APPLY CHANGES:

Click "Apply Changes" at the bottom of the page to save changes.

Settings / Peripherals

The Peripherals page is used to enable and configure the xBus peripherals which have been connected to the ePowerSwitch 8XM+. This page is also very useful to give an overview of all the peripherals which are or have been connected to the ePowerSwitch 8XM+.



Up to 255 peripherals can be connected to the ePowerSwitch 8XM+.

This unit supports following peripherals:

- Environmental monitoring units:
 - temperature sensors (T/TDE/TDT T-Sensor)
 - temperature and humidity sensor (TRH-Sensor)
 - temperature and ambient light sensor (TL-Sensor)
 - temperature and proximity sensor (TP-Sensor)
 - temperature sensor (Tiny T-Sensor)
 - liquid detector (KIT LIQ DET)
- Controlled IEC power outlets:
 - power control units, 1 outlet (ePowerSwitch 1XS)
 - power control units, 8 outlets (ePowerSwitch 8XS)
 - power control units, 8 outlets and 2 16A inputs with current probe (ePowerSwitch 8XS 32)
- I/O modules:
 - extension module with 16 inputs for dry contacts (XBUS DIM)
 - extension module with 8 relay outputs (XBUS DOM)
- Manually actions triggering:
 - Push Button
- Power consumption management:
 - current probe, 1 outlet IEC (CP IEC)

You can connect an xBus peripheral to the RJ45 connector on the ePowerSwitch 8XM+ or behind an xBus peripheral already connected to the ePowerSwitch 8XM+ (Daisy Chain Connection).

Connecting an xBus peripheral to the ePowerSwitch 8XM+:

1. Set the dip switches of the xBus peripheral so that the selected I/O address does not conflict with another peripheral already connected to the xBus (see user's guide of the corresponding peripheral).



- **Do NOT connect the xBus cable (and the power cable if need be) before setting its DIP switches**
- **Do NOT use the same address for two different xBus peripherals**

2. Using a standard RJ45 Network cable, connect the xBus peripheral to the RJ45 xBus connector on the ePowerSwitch 8XM+ or behind an xBus peripheral already connected to the ePowerSwitch 8XM+.

After connecting an xBus peripheral, you MUST enable it in the Peripherals Page:

1. Open your browser and log in to the Administrator's Configuration Page (default: <http://192.168.100.200/sysadmin.htm>)

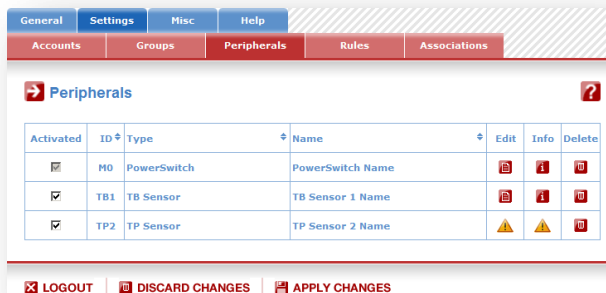
2. Enter the administrator name and password (default for both = admin).
=> The home page appears.
3. Click on the Settings and then on the Peripherals Tab.

If the peripheral is properly connected to the ePowerSwitch 8XM+ it will be automatically recognized and displayed on this page after a delay of 1 to 60 seconds. In this case, the colour of the corresponding Edit and Info symbol is red.

Note The Peripheral page is not automatically refreshed, so you need to refresh it by clicking the peripheral TAB again (or push [F5] or press <CTRL-R> on your keyboard if you use Internet Explorer or Mozilla Firefox).

Problem / Troubleshooting

- If you choose any setting that is already in use by another xBus peripheral connected to the ePowerSwitch 8XM+, an address conflict occurs and the corresponding Edit and Info symbol of the previous connected peripheral will be replaced by a yellow warning triangle. In that case, disconnect your last connected peripheral, remove its power cable if need be, change the DIP switch settings to solve the address conflict and reconnect the peripheral. If the conflict is solved, all connected peripherals will appear on the Peripherals page and their Edit and Info Symbol will be red.
- The yellow warning triangle is also displayed to point out that a connected xBus peripheral can no longer be reached (for instance if a cable is disconnected).
- The Peripheral page is not automatically refreshed, so you need to refresh it by clicking the peripheral TAB again (or push [F5] or press <CTRL-R> on your keyboard if you use Internet Explorer or Mozilla Firefox).



Activated	ID	Type	Name	Edit	Info	Delete
<input checked="" type="checkbox"/>	M0	PowerSwitch	PowerSwitch Name			
<input checked="" type="checkbox"/>	TB1	TB Sensor	TB Sensor 1 Name			
<input checked="" type="checkbox"/>	TP2	TP Sensor	TP Sensor 2 Name			

The Peripherals page is used to configure all peripherals connected to the ePowerSwitch 8XM+.

- To activate a peripheral, check the box "Activated" of the corresponding device.
- To deactivate a peripheral, uncheck the box "Activated" of the corresponding device. Even if the device remains physically connected to the ePowerSwitch 8XM+, it will no longer be accessible by its authorized users.

Note

The ePowerSwitch 8XM+ cannot be deactivated.

To remove a peripheral, click on the corresponding "Delete" button.

Note

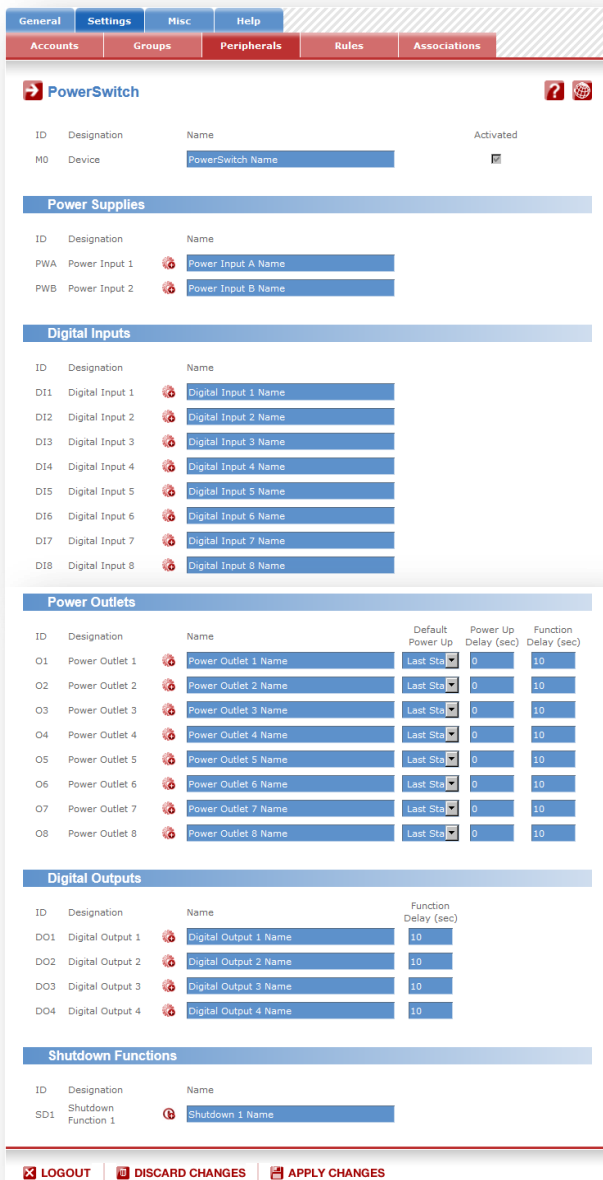
A peripheral cannot be deleted if it belongs to a group or a rule. In that case, you will first have to delete it from the group or the rule.

- To know the Firmware version of a device, click on the corresponding "Info" button.
- To configure or modify the settings of a device, click on the corresponding "Edit" button.

Settings / Peripherals - ePowerSwitch 8XM+

This page enables to label the device, the 8 power outlets of the ePowerSwitch 8XM+ and the shutdown function. Names of up to 32 alphanumeric characters in length are supported and appear in log files, Syslog messages and SNMP traps to avoid confusions.

1. Open your browser and log in to the Administrator's Page, (ex. <http://192.168.100.200/sysadmin.htm>).
2. Enter the administrator name and password (default for both = admin). The home page appears.
3. Click on the Settings Tab, on the Peripherals Tab and then on the Edit symbol.
Following new page appears, allowing you to define the labels.



The screenshot shows the configuration interface for the ePowerSwitch 8XM+ under the 'Peripherals' tab. The interface is organized into several sections:

- PowerSwitch:** A table with columns for ID, Designation, Name, and Activated. The ID is M0, Designation is Device, and Name is 'PowerSwitch Name'.
- Power Supplies:** A table with columns for ID, Designation, and Name. It lists Power Input 1 (PWA) and Power Input 2 (PWB) with their respective names.
- Digital Inputs:** A table with columns for ID, Designation, and Name. It lists Digital Input 1 through Digital Input 8 (D01 to D08) with their respective names.
- Power Outlets:** A table with columns for ID, Designation, Name, Default Power Up, Power Up Delay (sec), and Function Delay (sec). It lists Power Outlet 1 through Power Outlet 8 (O01 to O08) with their respective names, default power up settings, and function delays.
- Digital Outputs:** A table with columns for ID, Designation, Name, and Function Delay (sec). It lists Digital Output 1 through Digital Output 4 (DO1 to DO4) with their respective names and function delays.
- Shutdown Functions:** A table with columns for ID, Designation, and Name. It lists Shutdown Function 1 (SD1) with its name.

At the bottom of the interface, there are three buttons: LOGOUT, DISCARD CHANGES, and APPLY CHANGES.

ID:

The ePowerSwitch 8XM+ automatically creates an ID Code to clearly identify each device.

- M0 identifies the ePowerSwitch 8XM+ device

Name:

In these fields, enter the name you want to give to the selected device. The name can be from 1 to 32 characters long, and can contain alphanumeric characters.

Do not use quotes or special characters in labels!



Activated

This check box must be checked to activate the device and enables to deactivate it temporarily while keeping all its settings for a later use.

Power Outlets:

ID:

The ePowerSwitch 8XM+ automatically creates an ID Code to clearly identify each Power outlet.

- O followed by a number identifies each Power outlet



Create new rule:

Click on this button to create a new rule.

Name:

In this field, enter the name you want to give to each power outlet of the ePowerSwitch. The name can be from 1 to 32 characters long and can contain alphanumeric characters.

Do not use quotes or special characters in labels!



Default Power-Up:

In the drop-down lists, choose for each power outlet the default status to apply after power-up.

You can choose between:

- "On" if you want the corresponding power outlet to be always switched On after power-up.
- "Off" if you want the corresponding power outlet to be always switched Off after power-up.
- "Last Status" if you want that the corresponding power outlet takes again the state it was in before power failure.

Power up delay:

In this field, enter the power up delay you want to define for each power outlet. Power up delay means the delay before the power outlet will take the defined status after power up. The delay can be set between 1 and 255 seconds, the value 0 means that no delay has to be applied after power up.

Function delay:

In this field, enter the delay you want to define before the execution of a function (for example Restart function of an outlet).

Shutdowns Functions

ID:

The ePowerSwitch 8XM+ automatically creates an ID Code to clearly identify the Shutdown Function.

- SD1 identifies the Shutdown Function 1.



Create a new Shutdown Association:

Click on this button to create a new Shutdown Association.

Name:

In this field, enter the name you want to give to the Shutdown function. The name can be from 1 to 32 characters long and can contain alphanumeric characters.

Do not use quotes or special characters in labels!



LOGOUT:

Click "Logout" at the bottom of the page to exit the session without saving changes.

DISCARD CHANGES:

Click "Discard Changes" at the bottom of the page to discard all the changes you have made on this page.

APPLY CHANGES:

Click "Apply Changes" at the bottom of the page to save changes.

Settings / Peripherals - ePowerSwitch Satellite



ePowerSwitch 8-port or 1-port can be attached to the ePowerSwitch 8XM+ to remotely turn on/off electrical devices or reboot them.

You can connect an ePowerSwitch 1XS, 8XS or 8XS/32 to the RJ45 A-xBus connector on the ePowerSwitch 8XM+ or behind an xBus peripheral already connected to the ePowerSwitch 8XM+ (Daisy Chain Connection).

To connect an ePowerSwitch to the ePowerSwitch 8XM+, use following procedure:

1. Set the dip switches of the ePowerSwitch so that the selected I/O address does not conflict with another ePowerSwitch already installed (see user's guide of the corresponding ePowerSwitch).

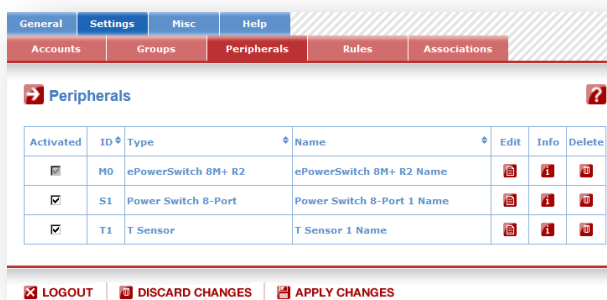


- Do NOT connect the xBus cable and the power cable before setting its DIP switches,
- Do NOT use the same address for two different ePowerSwitch devices.

2. Using a standard RJ45 network cable, connect the ePowerSwitch to the A-xBus connector on the ePowerSwitch 8XM+ or behind another xBus peripheral already connected to the ePowerSwitch.
3. Connect the power cable(s) to your ePowerSwitch device.

To configure the ePowerSwitch, use following Log in procedure:

1. Open you browser and log in to the Administrator's Configuration Page, (ex. <http://192.168.100.200/sysadmin.htm>).
2. Enter the administrator name and password (default for both = admin). The home page appears.
3. Click on the Settings and then on the Peripherals Tab.



Activated	ID	Type	Name	Edit	Info	Delete
<input checked="" type="checkbox"/>	M0	ePowerSwitch 8M+ R2	ePowerSwitch 8M+ R2 Name			
<input checked="" type="checkbox"/>	S1	Power Switch 8-Port	Power Switch 8-Port 1 Name			
<input checked="" type="checkbox"/>	T1	T Sensor	T Sensor 1 Name			

LOGOUT DISCARD CHANGES APPLY CHANGES

If the ePowerSwitch is properly connected to the ePowerSwitch 8XM+ it will be automatically recognized and displayed on this page after a delay of up to 60 seconds. In this case, the colour of the corresponding Edit and Info symbol is red.

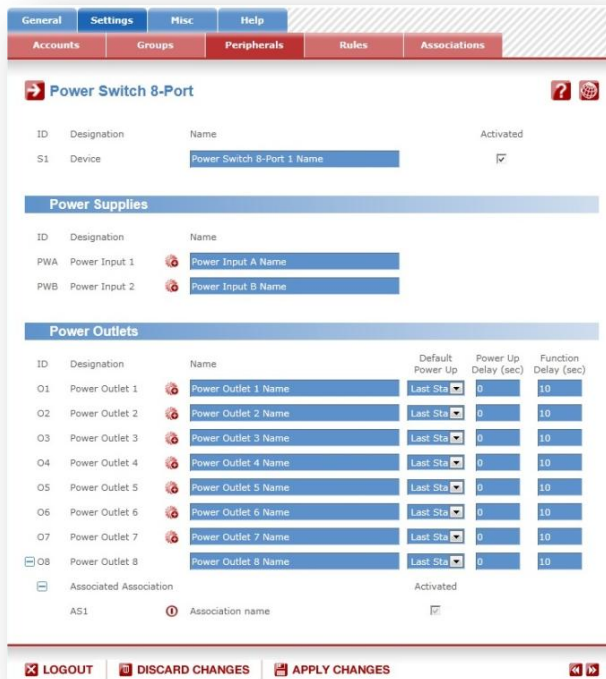


The Peripheral page is not automatically refreshed, so you need to refresh it by clicking the peripheral TAB again (or push [F5] or press <CTRL-R> on your keyboard if you use Internet Explorer or Mozilla Firefox).

Problem / Troubleshooting

- If you choose any setting that is already in use by another ePowerSwitch connected to the ePowerSwitch 8XM+, a conflict occurs and the corresponding Edit and Info symbol of the previous connected ePowerSwitch will be changed to black. In that case, disconnect your last connected ePowerSwitch, remove its power cable, change the DIP switch settings to solve the address conflict and reconnect the ePowerSwitch again. If the conflict is solved, all connected ePowerSwitches will now appear on the Peripherals page and their Edit and Info Symbol will be red.

- The Peripheral page is not automatically refreshed, so you need to refresh it by clicking the peripheral TAB again (or push [F5] or press <CTRL-R> on your keyboard if you use Internet Explorer or Mozilla Firefox).
4. To configure or modify the settings of the connected ePowerSwitch device, click on the corresponding "Edit" button in the Peripherals page. A new page appears, allowing you to set all the parameters of the ePowerSwitch Satellite device.



Power Switch 8-Port

ID	Designation	Name	Activated
S1	Device	Power Switch 8-Port 1 Name	<input checked="" type="checkbox"/>

Power Supplies

ID	Designation	Name
PWA	Power Input 1	Power Input A Name
PWB	Power Input 2	Power Input B Name

Power Outlets

ID	Designation	Name	Default Power Up	Power Up Delay (sec)	Function Delay (sec)
O1	Power Outlet 1	Power Outlet 1 Name	Last Sta	0	10
O2	Power Outlet 2	Power Outlet 2 Name	Last Sta	0	10
O3	Power Outlet 3	Power Outlet 3 Name	Last Sta	0	10
O4	Power Outlet 4	Power Outlet 4 Name	Last Sta	0	10
O5	Power Outlet 5	Power Outlet 5 Name	Last Sta	0	10
O6	Power Outlet 6	Power Outlet 6 Name	Last Sta	0	10
O7	Power Outlet 7	Power Outlet 7 Name	Last Sta	0	10
O8	Power Outlet 8	Power Outlet 8 Name	Last Sta	0	10

Associated Association

Association name	Activated
AS1	<input checked="" type="checkbox"/>

LOGOUT | DISCARD CHANGES | APPLY CHANGES

ID:

The ePowerSwitch 8XM+ automatically creates an ID Code to clearly identify each connected ePowerSwitch Satellite.

- S followed by a number identifies the ePowerSwitch Satellite unit

Name:

In this field, enter the name you want to give to the selected ePowerSwitch. The name can be from 1 to 32 characters long and can contain alphanumeric characters.

Do not use quotes or special characters in labels!



Activated

This check box must be checked to activate the device and enables to deactivate it temporarily while keeping all its settings for a later use.

Analog Inputs:

Only for Satellite 8XS/32



ID:

The ePowerSwitch 8XM+ automatically creates an ID Code to clearly identify each power input(s).

- I followed by "A" or "B" identifies the current input A and B of the ePowerSwitch 8XS /32,

Create new rule:

Click on this button to create a new rule.

Name:

In this field, enter the name you want to give to the two current inputs A and B. The name can be from 1 to 32 characters long and can contain alphanumeric characters.

Do not use quotes or special characters in labels!



Unit:

In this field enter the unit of measurement you want to be displayed.

Graph:

Check this box if you want a display of the analog inputs.

Period (minutes):

In this field enter the period between two measurements.

Power Supplies**ID:**

The ePowerSwitch 8XM+ automatically creates an ID Code to clearly identify each Power supply.

- PWA identifies the Power Input A,
- PWB identifies the Power Input B.

**Create new rule:**

Click on this button to create a new Power Supply rule.

Name:

In these fields, enter the name you want to give to the selected Power supply. The name can be from 1 to 32 characters long, and can contain alphanumeric characters.

Do not use quotes or special characters in labels!

Note

Power Outlets:**ID:**

The ePowerSwitch 8XM+ automatically creates an ID Code to clearly identify each Power outlet.

- O followed by a number identifies each Power outlet

**Create new rule:**

Click on this button to create a new rule.

Name:

In these fields, enter the name you want to give to the each Power Outlet of the ePowerSwitch Satellite. The name can be from 1 to 32 characters long, and can contain alphanumeric characters.

Do not use quotes or special characters in labels!

Note

Default Power-Up:

In the drop-down lists, choose for each power outlet the default status to apply after power-up.

You can choose between:

- "On" if you want the corresponding power outlet to be always switched On after power-up.
- "Off" if you want the corresponding power outlet to be always switched Off after power-up.
- "Last Status" if you want that the corresponding power outlet takes again the state it was in before power failure.

Power up delay:

In this field, enter the power up delay you want to define for each power outlet. Power up delay means the delay before the power outlet will take the defined status after power up. The delay can be set between 1 and 65535 seconds, the value 0 means that no delay has to be applied after power up.

Function delay:

In this field, enter the delay you want to define before the execution of a function (for example Restart function of an outlet).

LOGOUT:

Click "Logout" at the bottom of the page to exit the session without saving changes.

DISCARD CHANGES:

Click "Discard Changes" at the bottom of the page to discard all the changes you have made on this page.

APPLY CHANGES:

Click "Apply Changes" at the bottom of the page to save changes.

Settings / Peripherals - Analog sensors



Temperature, TDE temperature, humidity and temperature, ambient light and temperature sensors can be attached to the ePowerSwitch 8XM+ to monitor environmental conditions.

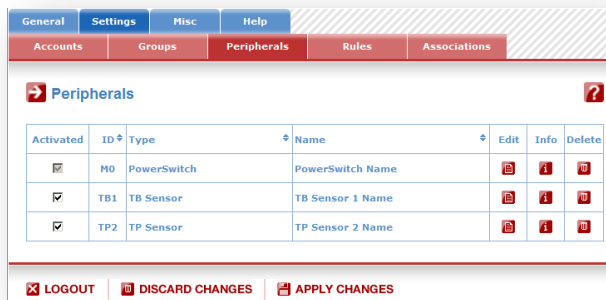
You can connect a sensor to the RJ45 connector on the ePowerSwitch 8XM+ or behind an xBus peripheral already connected to the ePowerSwitch 8XM+ (Daisy Chain Connection).

To connect a sensor to the ePowerSwitch 8XM+, use following procedure:

- Set the dip switches of the sensor so that the selected I/O address does not conflict with another sensor already installed (see user's guide of the corresponding sensor).
 - Do NOT connect the xBus cable before setting its DIP switches**
 - Do NOT use the same address for two different sensors**
- Using a standard RJ45 network cable, connect the sensor to the RJ45 xBus connector on the ePowerSwitch 8XM+ or behind another xBus peripheral already connected to the ePowerSwitch 8XM+.

To configure the sensor, use following Log in procedure:

- Open your browser and log in to the Administrator's Configuration Page, (ex. <http://192.168.100.200/sysadmin.htm>).
- Enter the administrator name and password (default for both = admin). The home page appears.
- Click on the Settings and then on the Peripherals Tab.



Activated	ID	Type	Name	Edit	Info	Delete
<input checked="" type="checkbox"/>	M0	PowerSwitch	PowerSwitch Name			
<input checked="" type="checkbox"/>	TB1	TB Sensor	TB Sensor 1 Name			
<input checked="" type="checkbox"/>	TP2	TP Sensor	TP Sensor 2 Name			

LOGOUT
 DISCARD CHANGES
 APPLY CHANGES

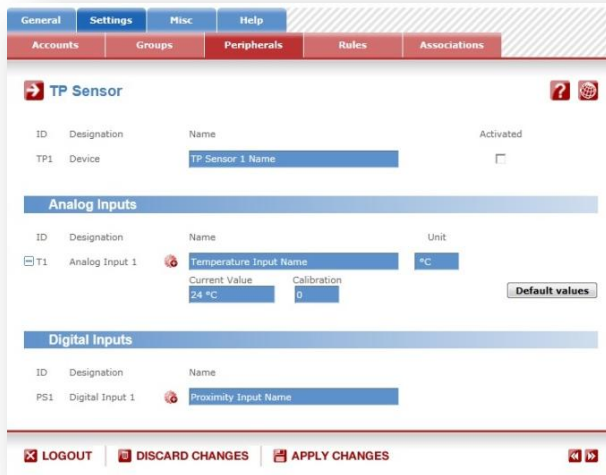
If the sensor is properly connected to the ePowerSwitch 8XM+ it will be automatically recognized and displayed on this page after a delay of up to 60 seconds. In this case, the colour of the corresponding Edit and Info symbol is red.

The Peripheral page is not automatically refreshed, so you need to refresh it by clicking the peripheral TAB again (or push [F5] or press <CTRL-R> on your keyboard if you use Internet Explorer or Mozilla Firefox).

Problem / Troubleshooting

- If you choose any setting that is already in use by another sensor connected to the ePowerSwitch 8XM+, a conflict occurs and the corresponding Edit and Info symbol of the previous connected sensor will be changed to black. In that case, disconnect your last connected sensor, change the DIP switch settings to solve the address conflict and reconnect the sensor again. If the conflict is solved, all connected sensors will now appear on the Peripherals page and their Edit and Info Symbol will be red.

- The Peripheral page is not automatically refreshed, so you need to refresh it by clicking the peripheral TAB again (or push [F5] or press <CTRL-R> on your keyboard if you use Internet Explorer or Mozilla Firefox).
4. To configure or modify the settings of a sensor, click on the corresponding "Edit" button in the Peripherals page. A new page appears, allowing you to set all the sensor parameters.



Sensor ID:

The ePowerSwitch 8XM+ automatically creates an ID Code to clearly identify each connected sensor.

- T followed by a number identifies each temperature sensor,
- TDE followed by a number identifies each temperature sensor with 1 digital input,
- TDT followed by a number identifies each temperature sensor with 2 digital inputs,
- TH followed by a number identifies each temperature and humidity sensor,
- TP followed by a number identifies each temperature and proximity sensor,
- TA followed by a number identifies each temperature and ambient light sensor.

Sensor Name:

In this field, enter the name you want to give to the selected sensor. The name can be from 1 to 32 characters long, and can contain alphanumeric characters.

Do not use quotes or special characters in labels!



Activated

This check box must be checked to activate the sensor and enables to deactivate it temporarily while keeping all its settings for a later use.

Analog Inputs

ID

The ePowerSwitch 8XM+ automatically creates an ID Code to clearly identify each Analog input.

- T followed by a number identifies each temperature value

Create new rule:

Click on this button to create a new rule.

Name:

In this field enter the name you want to give to the analog inputs.

Do not use quotes or special characters in labels!



Unit:

In this field enter the unit of measurement you want to be displayed (°C, %RH, Lux).

Current value:

Display the current value.

Calibration:

In this field set the value of the calibration.

Digital Inputs

Note

Only for TDE /TDT temperature sensor and TP temperature and proximity sensor.

ID

The ePowerSwitch 8XM+ automatically creates an ID Code to clearly identify each Digital input.

- DI followed by a number identifies each Digital Input,
- EOL followed by a number identifies the End Of Line input.



Create new rule:

Click on this button to create a new rule.

Name:

In this field enter the name you want to give to the digital input.

Note

Do not use quotes or special characters in labels!

LOGOUT:

Click "Logout" at the bottom of the page to exit the session without saving changes.

DISCARD CHANGES:

Click "Discard Changes" at the bottom of the page to discard all the changes you have made on this page.

APPLY CHANGES:

Click "Apply Changes" at the bottom of the page to save changes.

Settings / Peripherals - AC Current probe



AC Current probes can be attached to the ePowerSwitch 8XM+ to monitor the current consumption of an electrical device (PC, server, light, printer...) and trigger actions if predefined limits are exceeded.

You can connect an AC Current probe to each of the RJ45 A-xbus connector on the ePowerSwitch 8XM+ or behind an xBus peripheral already connected to the ePowerSwitch 8XM+ (Daisy Chain connection).

To connect an AC Current probe to the ePowerSwitch 8XM+, use following procedure:

1. Set the dip switches of the AC Current probe so that the selected I/O address does not conflict with another AC Current probe already installed (see user's guide of the AC Current probe)



- Do NOT connect the xBus cable and the power cable before setting its DIP switches
- Do NOT use the same address for two different AC Current probes

2. Using a standard RJ45 network cable, connect the AC Current probe to the RJ45 A-xBus connector on the ePowerSwitch 8XM+ or behind another AC Current probe already connected to the ePowerSwitch 8XM+.

3. Connect the power cable to your device

To configure the Current Probe, use following Log in procedure:

1. Open you browser and log in to the Administrator's Configuration Page, (ex. <http://192.168.100.200/sysadmin.htm>).
2. Enter the administrator name and password (default for both = admin). The home page appears.
3. Click on the Settings and then on the Peripherals Tab

If the AC Current probe is properly connected to the ePowerSwitch 8XM+ it will be automatically recognized and displayed on this page after a delay of 1 to 60 seconds. In this case, the colour of the corresponding Edit and Info symbol is red.



The Peripheral page is not automatically refreshed, so you need to refresh it by clicking the peripheral TAB again (or push [F5] or press <CTRL-R> on your keyboard if you use Internet Explorer or Mozilla Firefox).

Problem / Troubleshooting

- If you choose any setting that is already in use by another AC Current probe connected to the ePowerSwitch 8XM+, a conflict occurs and the corresponding Edit and Info symbol of the previous connected AC Current probe will be changed to black. In that case, disconnect your last connected AC Current probe, remove its power cable, change the DIP switch settings to solve the address conflict and reconnect the AC Current probe again. If the conflict is solved, all connected AC Current probes will now appear on the Peripherals page and their Edit and Info Symbol will be red.
 - The Peripheral page is not automatically refreshed, so you need to refresh it by clicking the peripheral TAB again (or push [F5] or press <CTRL-R> on your keyboard if you use Internet Explorer or Mozilla Firefox).
4. To configure or modify the settings of an AC Current Probe, click on the corresponding "Edit" button in the Peripherals page. A new page appears, allowing you to set all the parameters of the connected AC Current Probe.

ID:

The ePowerSwitch 8XM+ automatically creates an ID Code to clearly identify each Current Probe.

- CP followed by a number identifies each current probe

Name:

In this field, enter the name you want to give to the selected current probe. The name can be from 1 to 32 characters long, and can contain alphanumeric characters.

Do not use quotes or special characters in labels!



Note

Activated

This check box must be checked to activate the device and enables to deactivate it temporarily while keeping all its settings for a later use.

Analog Inputs**ID:**

The ePowerSwitch 8XM+ automatically creates an ID Code to clearly identify each analog input.

- I1 identifies the current analog input.

**Create new rule:**

Click on this button to create a new rule.

Name:

In this field, enter the name you want to give to the analog input. The name can be from 1 to 32 characters long, and can contain alphanumeric characters.

Do not use quotes or special characters in labels!



Note

Unit:

In this field enter the unit of measurement you want to be displayed.

Graph:

Check this box if you want a display of the analog inputs.

Period (minutes):

In this field enter the period between two measurements.

LOGOUT:

Click "Logout" at the bottom of the page to exit the session without saving changes.

DISCARD CHANGES:

Click "Discard Changes" at the bottom of the page to discard all the changes you have made on this page.

APPLY CHANGES:

Click "Apply Changes" at the bottom of the page to save changes.

Settings / Peripherals – Digital Output Module



To connect a Digital Output Module to the ePowerSwitch 8XM+, use following procedure:

1. Set the dip switches on the bottom of the case so that the selected I/O address does not conflict with another Digital Output Module already installed (see user's guide of the Digital Output Module).



- **Do NOT connect the xBus cable and the Power adapter(s) before setting its DIP switches**
- **Do NOT use the same address for two different Digital Output Modules**

2. Using a standard RJ45 network cable, connect the Digital Output Module to the RJ45 A-xBus connector on the ePowerSwitch 8XM+ or behind another xBus peripheral already connected to the ePowerSwitch 8XM+.

3. Connect the power adapter(s) to your Digital Output Module.

To configure the Digital Output Module, use following Log in procedure:

1. Open your browser and log in to the Administrator's Configuration Page, (ex. <http://192.168.100.200/sysadmin.htm>).
2. Enter the administrator name and password (default for both = admin). The home page appears.
3. Click on the Settings and then on the Peripherals Tab.

If the Digital Output Module is properly connected to the ePowerSwitch 8XM+ it will be automatically recognized and displayed on this page after a delay of up to 60 seconds. In this case, the colour of the corresponding Edit and Info symbol is red.

The Peripheral page is not automatically refreshed, so you need to refresh it by clicking the peripheral TAB again (or push [F5] or press <CTRL-R> on your keyboard if you use Internet Explorer or Mozilla Firefox).

Problem / Troubleshooting

- If you choose any setting that is already in use by another Digital Output Module connected to the ePowerSwitch 8XM+, a conflict occurs and the corresponding Edit and Info symbol of the previous connected Digital Output Module will be changed to black. In that case, disconnect your last connected Digital Output Module, remove its power adapter(s), change the DIP switch settings to solve the address conflict and reconnect it again. If the conflict is solved, all connected devices will now appear on the Peripherals page and their Edit and Info Symbol will be red.
- The Peripheral page is not automatically refreshed, so you need to refresh it by clicking the peripheral TAB again (or push [F5] or press <CTRL-R> on your keyboard if you use Internet Explorer or Mozilla Firefox).

To configure or modify the settings of the Digital inputs, click on the corresponding "Edit" button in the Peripherals page.

A new page appears, allowing you to set all the parameters of the Digital Inputs.

ID:

The ePowerSwitch 8XM+ automatically creates an ID Code to clearly identify each connected Digital Output Module.

- DOM followed by a number identifies each Digital Output Module

Name:

In this field, enter the name you want to give to the Digital Output Module. The name can be from 1 to 32 characters long, and can contain alphanumeric characters.

 **Do not use quotes or special characters in labels!**

Activated

This check box must be checked to activate the device and enables to deactivate it temporarily while keeping all its settings for a later use.

Power Supplies:

ID

The ePowerSwitch 8XM+ automatically creates an ID Code to clearly identify each power input.

- PW followed by "A" or "B" identifies power supply input A and B of each Digital Output Module



Create new rule:

Click on this button to create a new rule.

Name

In this field, enter the name you want to give to the two power supplies "PWA" and "PWB". The name can be from 1 to 32 characters long, and can contain alphanumeric characters.

 **Do not use quotes or special characters in labels!**

Digital Outputs

ID

The ePowerSwitch 8XM+ automatically creates an ID Code to clearly identify each d input.

- DI followed by a number between 1 and 16 identifies each digital input of the module



Create new rule:

Click on this button to create a new rule.

Name:

In this fields, enter the name you want to give to each Digital Output. The name can be from 1 to 32 characters long, and can contain alphanumeric characters.

 **Do not use quotes or special characters in labels!**

LOGOUT:

Click "Logout" at the bottom of the page to exit the session without saving changes.

DISCARD CHANGES:

Click "Discard Changes" at the bottom of the page to discard all the changes you have made on this page.

APPLY CHANGES:

Click "Apply Changes" at the bottom of the page to save changes.

Settings / Peripherals - Digital Input Modules



Digital Input Modules with 8 inputs for dry contacts (door contacts, smoke and water detectors...) can be attached to the ePowerSwitch 8XM+ to monitor environmental conditions.

To connect a Digital Input Module to the ePowerSwitch 8XM+, use following procedure:

4. Set the dip switches on the bottom of the case so that the selected I/O address does not conflict with another Digital Input Module already installed (see user's guide of the Digital Input Module).



- Do NOT connect the xBus cable and the Power adapter(s) before setting its DIP switches
- Do NOT use the same address for two different Digital Input Modules

5. Using a standard RJ45 network cable, connect the Digital Input Module to the RJ45 A-xBus connector on the ePowerSwitch 8XM+ or behind another xBus peripheral already connected to the ePowerSwitch 8XM+.
6. Connect the power adapter(s) to your Digital Input Module.

To configure the Digital Input Module, use following Log in procedure:

4. Open you browser and log in to the Administrator's Configuration Page, (ex. <http://192.168.100.200/sysadmin.htm>).
5. Enter the administrator name and password (default for both = admin). The home page appears.
6. Click on the Settings and then on the Peripherals Tab.

If the Digital Input Module is properly connected to the ePowerSwitch 8XM+ it will be automatically recognized and displayed on this page after a delay of up to 60 seconds. In this case, the colour of the corresponding Edit and Info symbol is red.

The Peripheral page is not automatically refreshed, so you need to refresh it by clicking the peripheral TAB again (or push [F5] or press <CTRL-R> on your keyboard if you use Internet Explorer or Mozilla Firefox).

Problem / Troubleshooting

- If you choose any setting that is already in use by another Digital Input Module connected to the ePowerSwitch 8XM+, a conflict occurs and the corresponding Edit and Info symbol of the previous connected Digital Input Module will be changed to black. In that case, disconnect your last connected Digital Input Module, remove its power adapter(s), change the DIP switch settings to solve the address conflict and reconnect it again. If the conflict is solved, all connected devices will now appear on the Peripherals page and their Edit and Info Symbol will be red.
- The Peripheral page is not automatically refreshed, so you need to refresh it by clicking the peripheral TAB again (or push [F5] or press <CTRL-R> on your keyboard if you use Internet Explorer or Mozilla Firefox).

To configure or modify the settings of the Digital inputs, click on the corresponding "Edit" button in the Peripherals page.

A new page appears, allowing you to set all the parameters of the Digital Inputs.

ID:

The ePowerSwitch 8XM+ automatically creates an ID Code to clearly identify each connected Digital Input Module.

- DIM followed by a number identifies each Digital Input Module

Name:

In this field, enter the name you want to give to the Digital Input Module. The name can be from 1 to 32 characters long, and can contain alphanumeric characters.

 Note

Do not use quotes or special characters in labels!

Activated

This check box must be checked to activate the device and enables to deactivate it temporarily while keeping all its settings for a later use.

Power Supplies:**ID**

The ePowerSwitch 8XM+ automatically creates an ID Code to clearly identify each power input.

- PW followed by "A" or "B" identifies power supply input A and B of each Digital Input Module

**Create new rule:**

Click on this button to create a new rule.

Name

In this field, enter the name you want to give to the two power supplies "PWA" and "PWB". The name can be from 1 to 32 characters long, and can contain alphanumeric characters.

 Note

Do not use quotes or special characters in labels!

Digital Inputs**ID**

The ePowerSwitch 8XM+ automatically creates an ID Code to clearly identify each d input.

- DI followed by a number between 1 and 16 identifies each digital input of the module

**Create new rule:**

Click on this button to create a new rule.

Name:

In this fields, enter the name you want to give to each Digital Input. The name can be from 1 to 32 characters long, and can contain alphanumeric characters.

 Note

Do not use quotes or special characters in labels!

LOGOUT:

Click "Logout" at the bottom of the page to exit the session without saving changes.

DISCARD CHANGES:

Click "Discard Changes" at the bottom of the page to discard all the changes you have made on this page.

APPLY CHANGES:

Click "Apply Changes" at the bottom of the page to save changes.

Settings / Peripherals - Proximity and temperature sensors



Proximity sensor with its internal temperature sensor can be attached to the ePowerSwitch 8XM+ to detect presence of a target and monitor temperature change.

You can connect a sensor to the RJ45 A-xBus connector on the ePowerSwitch 8XM+ or behind an xBus peripheral already connected to the ePowerSwitch 8XM+ (Daisy Chain Connection).

To connect a sensor to the ePowerSwitch 8XM+, use following procedure:

1. Set the dip switches of the sensor so that the selected I/O address does not conflict with another sensor already installed (see user's guide of the corresponding sensor).
- Do NOT connect the xBus cable before setting its DIP switches.
- Do NOT use the same address for two different sensors.
2. Using a standard RJ45 network cable, connect the sensor to the RJ45 xBus connector on the ePowerSwitch 8XM+ or behind another xBus peripheral already connected to the ePowerSwitch 8XM+.

Note

To configure the sensor, use following Log in procedure:

1. Open your browser and log in to the Administrator's Configuration Page, (ex. <http://192.168.100.200/sysadmin.htm>).
2. Enter the administrator name and password (default for both = admin). The home page appears.
3. Click on the Settings and then on the Peripherals Tab.

If the sensor is properly connected to the ePowerSwitch 8XM+ it will be automatically recognized and displayed on this page after a delay of up to 60 seconds. In this case, the colour of the corresponding Edit and Info symbol is red.

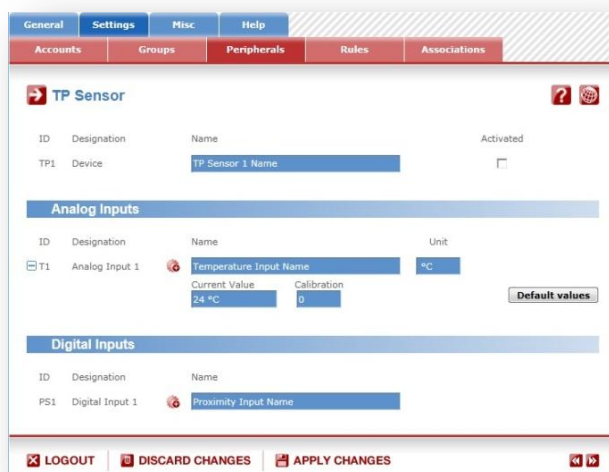
The Peripheral page is not automatically refreshed, so you need to refresh it by clicking the peripheral TAB again (or push [F5] or press <CTRL-R> on your keyboard if you use Internet Explorer or Mozilla Firefox).

Note

Problem / Troubleshooting

- *If you choose any setting that is already in use by another sensor connected to the ePowerSwitch 8XM+, a conflict occurs and the corresponding Edit and Info symbol of the previous connected sensor will be changed to black. In that case, disconnect your last connected sensor, change the DIP switch settings to solve the address conflict and reconnect the sensor again. If the conflict is solved, all connected sensors will now appear on the Peripherals page and their Edit and Info Symbol will be red.*
- *The Peripheral page is not automatically refreshed, so you need to refresh it by clicking the peripheral TAB again (or push [F5] or press <CTRL-R> on your keyboard if you use Internet Explorer or Mozilla Firefox).*

To configure or modify the settings of a sensor, click on the corresponding "Edit" button in the Peripherals page. A new page appears, allowing you to set all the parameters of the temperature & proximity (TP) sensors.



ID:

The ePowerSwitch 8XM+ automatically creates an ID Code to clearly identify each connected sensor.

- TP followed by a number identifies each temperature and proximity sensor,

Sensor Name:

In this field, enter the name you want to give to the selected sensor. The name can be from 1 to 32 characters long, and can contain alphanumeric characters.

Do not use quotes or special characters in labels!

Activated

This check box must be checked to activate the sensor and enables to deactivate it temporarily while keeping all its settings for a later use.

Analog Inputs

ID

The ePowerSwitch 8XM+ automatically creates an ID Code to clearly identify each Analog input.

- T followed by a number identifies each temperature value

Create new rule:

Click on this button to create a new rule.

Name:

In this field enter the name you want to give to the analog inputs.

Do not use quotes or special characters in labels!

Unit:

In this field enter the unit of measurement you want to be displayed (°C, %RH, Lux).

Current value:

Display the current value.

Calibration:

In this field set the value of the calibration.

Digital Inputs

ID

The ePowerSwitch 8XM+ automatically creates an ID Code to clearly identify each Digital input.

- PS followed by a number identifies the Proximity Input,

Create new rule:

Click on this button to create a new rule.

Name:

In this field enter the name you want to give to the digital input.

Do not use quotes or special characters in labels!

LOGOUT:

Click "Logout" at the bottom of the page to exit the session without saving changes.

DISCARD CHANGES:

Click "Discard Changes" at the bottom of the page to discard all the changes you have made on this page.

APPLY CHANGES:

Click "Apply Changes" at the bottom of the page to save changes.

Settings / Peripherals - Push Button



Push buttons can be attached to the ePowerSwitch 8XM+ to trigger manually pre-programmed actions.

You can connect a Push Button to the RJ45 A-xBus connector on the ePowerSwitch 8XM+ or behind an xBus peripheral already connected to the ePowerSwitch 8XM+ (Daisy Chain Connection).

To connect a Push button to the ePowerSwitch 8XM+, use following procedure:

1. Set the dip switches of the Push button so that the selected I/O address does not conflict with another Push button or another Digital Input Module already installed (see user's guide of the Push button).



- Do NOT connect the xBus cable before setting its DIP switches.
- Do NOT use the same address for two different Push buttons.

2. Using a standard RJ45 network cable, connect the Push button to the RJ45 xBus connector on the ePowerSwitch 8XM+ or behind another xBus peripheral already connected to the ePowerSwitch 8XM+.

To configure the Push button, use following Log in procedure:

1. Open you browser and log in to the Administrator's Configuration Page, (ex. <http://192.168.100.200/sysadmin.htm>).
2. Enter the administrator name and password (default for both = admin). The home page appears.
3. Click on the Settings and then on the Peripherals Tab.

If the Push button is properly connected to the ePowerSwitch 8XM+ it will be automatically recognized and displayed on this page after a delay of 1 to 60 seconds. In this case, the colour of the corresponding Edit and Info symbol is red.



The Peripheral page is not automatically refreshed, so you need to refresh it by clicking the peripheral TAB again (or push [F5] or press <CTRL-R> on your keyboard if you use Internet Explorer or Mozilla Firefox).

Problem / Troubleshooting

- *If you choose any setting that is already in use by another Push button or another Digital Input Module connected to the ePowerSwitch 8XM+, a conflict occurs and the corresponding Edit and Info symbol of a previous connected Push button or Digital Input Module will be changed to black. In that case, disconnect your last connected Push button, change the DIP switch settings to solve the address conflict and reconnect the Push button again. If the conflict is solved, all connected devices will now appear on the Peripherals page and their Edit and Info Symbol will be red.*
- *The Peripheral page is not automatically refreshed, so you need to refresh it by clicking the peripheral TAB again (or push [F5] or press <CTRL-R> on your keyboard if you use Internet Explorer or Mozilla Firefox).*

To configure or modify the settings of the Push Button, click on the corresponding "Edit" button in the Peripherals page. A new page appears, allowing you to set all the parameters of the connected Push Buttons.

ID:

The ePowerSwitch 8XM+ automatically creates an ID Code to clearly identify each Push button.

- PB followed by a number identifies each Push button

Name:

In this field, enter the name you want to give to the selected Push button. The name can be from 1 to 32 characters long, and can contain alphanumeric characters.



Do not use quotes or special characters in labels!

Activated

This check box must be checked to activate the push button and enables to deactivate it temporarily while keeping all its settings for a later use.

Digital Inputs**Sensor ID:**

The ePowerSwitch 8XM+ automatically creates an ID Code to clearly identify each action.

- SP1 identifies each "Short Push" action (during less than 1 second)
- LP2 identifies each "Long Push" action (during more than 3 seconds)

**Create new rule:**

Click on this button to create a new rule.

Name:

In these fields enter the name of the two type of action (Short Push or Long Push).



Do not use quotes or special characters in labels!

LOGOUT:

Click "Logout" at the bottom of the page to exit the session without saving changes.

DISCARD CHANGES:

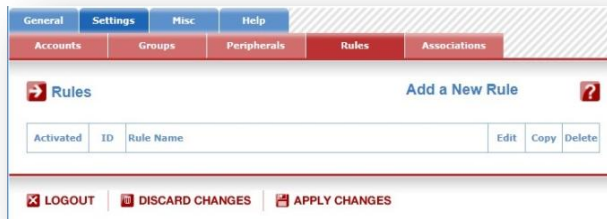
Click "Discard Changes" at the bottom of the page to discard all the changes you have made on this page.

APPLY CHANGES:

Click "Apply Changes" at the bottom of the page to save changes.

Settings / Rules

Rules are used to control actions according to a specific event. For example, you can define a rule to switch a power outlet OFF and send an alert message using different methods like SNMP or Syslog when a temperature, humidity, ambient light or current exceeds a predefined value or when a contact is open.



- To remove an existing rule, click on "Delete" of the corresponding rule.
 - To modify a rule, click on "Edit" of the corresponding rule.
- This page is used to create, modify and delete rules.
- To add a new rule, click on "Add a New Rule" on the right side of the page.
- A new page appears, allowing you to set all the parameters of the rule.
A total of 32 rules can be created and there are 8 different types of rules:

1. Schedule Rule:

This rule is used to trigger user-specified actions according to a defined time table.

This rule can be used to:

- execute **once** defined actions at specified time and weekday(s). In this case you must only specify the start time and the weekday(s),
- execute **repeatedly** defined actions during a given time. In this case you must specify the start time, the interval on which the rule has to be repeated and the end time.

Examples:

- The rule could be used to restart a power outlet (or a group of power outlets) at regular interval during a given time.
- The rule could be used to send sensor values over SNMP or a Syslog message at regular interval during a given time.

2. Timer Rule:

This rule can be used to trigger user-specified actions according to a defined time table.

This rule can be used to switch On or Off a power outlet (or a group of power outlets) or a digital output at specified time and weekday(s) for a specified time. You must define the start time, the weekday(s) and the stop time.

Example:

- The rule could be used to switch On a device every Monday and Friday from 8:00 AM (Start Time) and switch it automatically off every Monday and Friday at 05:00 PM (Stop Time)

3. Ping Monitoring Rule:

This rule is used to control actions according to the response to a Ping command.

This rule can be used to check if a computer or any IP device is connected to the network. If the host doesn't reply, the ePowerSwitch 8XM+ can automatically restart the powered device.

4. Scan Monitoring Rule:

This rule is used to control actions according to the response to a Scan command.

This rule can be used to check if a specific protocol is available on a. If the connection is not possible, ePowerSwitch 8XM+ can automatically restart the powered device.

5. Power Supply Monitoring Rule:

This rule is used to control actions according to the state of the power supplies of the ePowerSwitch 8XM+ and its peripherals like the ePowerSwitch 8XS and the Digital Input Module.

6. Digital Input Monitoring Rule:

This rule is used to control actions according to the state of a sensor, Push Button or a dry contact from the Digital Input Module.

7. Analog Input Monitoring Rule:

This rule is used to control actions when an analog input (temperature, humidity, ambient light, current...) exceeds a predefined value.

8. xBus Peripheral Connection Rule:

This rule is used to monitor the presence of xBus Peripherals and to trigger different actions when an xBus Peripheral is disconnected (cable disconnected or broken) or connected again.

9. Trigger Rule

This Rule is used to send a request over the Internet from your Device to another Device. The request sent by your Device is used to trigger an Action on the second Device, for instance to remotely turn on or off a Power Outlet, to close or open a Relay, to send an Alarm Message (SNMP Trap, email or Syslog).

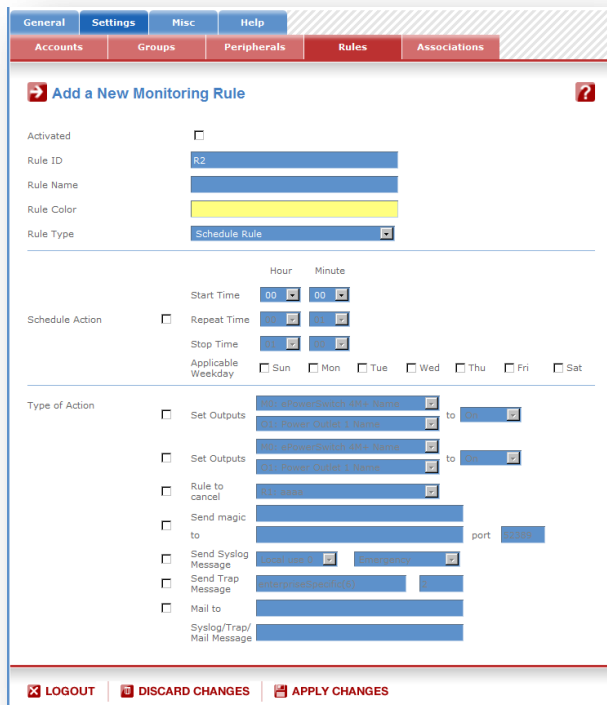
10. Script Rule

This Rule is used to make one combined rule with many others.

Settings / Rules - Schedule Rule

This rule can be used to trigger user-specified actions according to a defined time table. The schedule rule is weekday based and the administrator can declare, for each weekday, a start time, an end time and after what time the rule should be repeated.

The schedule rule can also be used to send status information or sensor values on specified weekdays at regular interval.



Activated

This check box must be checked to activate the Rule and enables to deactivate temporarily a rule while keeping all its settings for a later use.

Rule ID:

The ePowerSwitch 8XM+ automatically creates an ID Code to clearly identify each rule. All the ID Codes used to identify rules start with the letter "R" followed by a number from 1 to 32. If you delete a rule in the middle of the Rule list, the number of this rule will only be used again if no other rule is available.

Rule Name:

In this field, enter the name you want to give to the rule. The name can be from 1 to 32 characters long, and can contain alphanumeric characters.



Do not use quotes or special characters in labels!

Rule Color:

In this field, select one of the 48 standard colours you want to use to highlight the rule when executed. To use own colours, just type in the Hex value of the colour you want. The Rule highlighting allows to quickly identify the triggered rule when displayed in the Rule Panel page or in a special user's page.

Rule Type:

In this drop-down list, choose Schedule Rule then configure the event and the actions to perform.

Configuring the Event

Schedule Action:

Here you can define the time when the rule has to be executed. In the Drop-Down lists choose the time and below, check one or more day boxes.

Start Time

Defines what time the rule starts.

Repeat Time

Defines the time period in which the rule repeats.



Repeat Time cannot be set to zero.

Stop Time

Defines what time the rule ends.



- **End Time must be greater than or equal to Start Time.**
- **If the rule has to be executed only once at the selected weekday, enter the same value for Start Time and End Time.**
- **If the rule has to be executed 24 hours at the selected weekday, Start Time must be 1 minute later than EndTime.**

Applicable weekday

Defines which day(s) the rule has to be executed.

Configuring the Action(s)

Type of Action

For the Event defined above, you can choose and configure following actions:

Set Outputs



This type of Action only appears if:

- your Device has own Power Outlets or has access to Power Outlets of connected xBus Peripheral Units

- your Device has access to Relay Outputs of connected xBus Peripheral Units

- you have created interface associations (Go to Settings/Associations).

Select this checkbox and choose in the corresponding drop-down lists the Output to use for this Rule.

Each Power Outlet can be switched to On, Off or Restarted.

If you choose "Restart" you can also define a Restart delay between 0 and 3600 seconds.

- If you choose 0 second for the delay, the delay will be the delay defined in the Peripherals page (goto Settings/Peripherals/Edit).

- If you choose a delay different from 0, this delay will replace the delay defined in the Peripherals page (goto Settings/Peripherals/Edit).

Each Relay Output can be switched to Open, Close, Pulse Open, Pulse Close.

If you choose Pulse open or Pulse close you can also define a delay between 0 and 3600 seconds.

- If you choose 0 second for the delay, the delay will be the delay defined in the Peripherals page (goto Settings/Peripherals/Edit).

- If you choose a delay different from 0, this delay will replace the delay defined Peripherals page (goto Settings/Peripherals/Edit).

Rule to cancel

This type of Action only appears if you already have created a Rule which you want to cancel

Select this checkbox and choose in the corresponding drop-down lists the Rule you want to cancel.

Send Magic

Your Device has the possibility to send a Magic Word over IP to another Device in order to remotely trigger an action.

- Send magic: specify the Magic Word to use, it can be from 1 to 32 characters long, and can contain alphanumeric characters.

- to: specify the IP address of the destination device

- port: specify the Port number used to send the Magic Word, default port number is 52389


Send Syslog Message





This type of Action can only be configured if you have already specified at least one destination Syslog Server (Go to General/Log Settings Page).

Check this box if you want to send a message to a Syslog server. In the following drop-down lists choose the facility and the severity of the message to send.

Send Trap Message

 **This type of Action appears and can be configured only if you have already specified at least one destination SNMP Server (Go to General/SNMP Page).**
Check this/these box(es) and specify one or two SNMP addresses in the corresponding field if you want to send SNMP messages to one or two SNMP Servers.

 **Mail to**
This Action can only be configured if you have already specified an SMTP Mail Server (Go to General/SMTP).
Check this box and specify a valid email address.

 **Syslog / Trap / Mail Message**
This field can only be configured if you already have specified at least one destination Syslog Server (General/Log Settings Page) or one destination SNMP Server (Goto General/SNMP Page).
Up to 255 characters may be entered in this free text field. The text will appear in the Syslog, the Trap and the emails.
The message can be completed with the status of an input (a power supply or door contact for example) or the value of a sensor (a temperature sensor for example). For this, simply enter, between two "%" characters, the ID of the corresponding input Device (for details see § 5.1 Sending status and values using rules).

LOGOUT:

Click "Logout" at the bottom of the page to exit the session without saving changes.

DISCARD CHANGES:

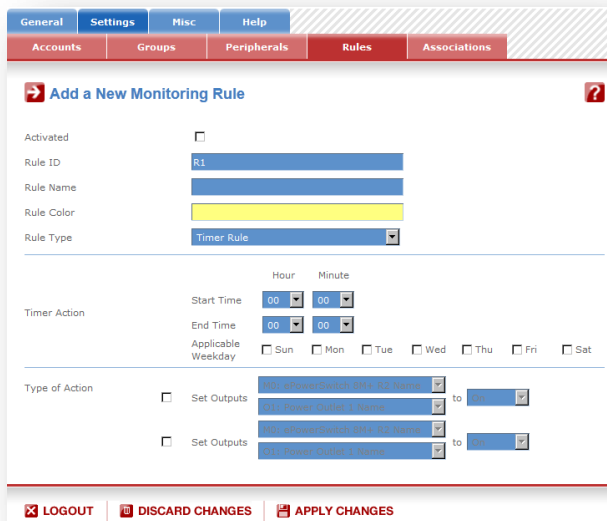
Click "Discard Changes" at the bottom of the page to discard all the changes you have made on this page.

APPLY CHANGES:

Click "Apply Changes" at the bottom of the page to save changes.

Settings / Rules - Timer Rule

This rule can be used to trigger some actions according to a defined time table. For instance, you could create a rule to switch OFF a Power Outlet every Friday at 6 PM and create another rule to switch the Power Outlets ON again every Monday at 8 AM.



Activated

This check box must be checked to activate the rule. It enables to deactivate temporarily a rule while keeping all its settings for a later use.

Rule ID

The Power Switch automatically creates an ID Code to clearly identify each rule. These codes start with the letter "R" followed by a number.

Rule Name

In this field, enter the name you want to give to the rule. The name can be from 1 to 32 characters long, and can contain alphanumeric characters.



Do not use quotes or special characters in labels!

Rule Color:

In this field, select one of the 48 standard colours you want to use to highlight the rule when executed. To use own colours, just type in the Hex value of the colour you want. The Rule highlighting allows to quickly identify the triggered rule when displayed in the Rule Panel page or in a special user's page.

Rule Type

In this Drop-Down list, choose Schedule Rule.

Rules are used to control actions according to a specific event. To create a rule, you will first have to configure the chosen event and then to choose the actions to perform.

Configuring the Event

Timer Action

Start Time

Defines what time the rule starts.

Stop Time

Defines what time the rule ends.

Applicable weekday


Defines which day(s) the rule has to be executed.

Configuring the Action(s)

Type of Action

For the Event defined above, you can choose and configure following actions:

Set Outputs

- 
- This type of Action can only be configured if:**
- **your Device has own Power Outlets or has access to Power Outlets of connected xBus Peripheral Units**
 - **your Device has own Relay Outputs or has access to Relay Outputs of connected xBus Peripheral Units**
 - **your Device has access to Relay Outputs of connected xBus Peripheral Units**
 - **you have created interface associations (Go to Settings/Associations).**

Select this checkbox and choose in the corresponding drop-down lists the Output to use for this Rule. Each Power Outlet can be switch to On, Off or Restarted.

If you choose "Restart" you can also define a Restart delay between 0 and 3600 seconds.

- If you choose 0 second for the delay, the delay will be the delay defined in the "Power Outlets Page".
- If you choose a delay different from 0, this delay will replace the delay defined in the "Settings/Peripherals/Edit Page".

Each Relay Output can be switch to Open, Close, Pulse Open, Pulse Close.

If you choose Pulse open or Pulse close you can also define a delay between 0 and 3600 seconds.

- If you choose 0 second for the delay, the delay will be the delay defined in the "Power Outlets Page".
- If you choose a delay different from 0, this delay will replace the delay defined in the "Settings/Peripherals/Edit Page".

LOGOUT:

Click "Logout" at the bottom of the page to exit the session without saving changes.

DISCARD CHANGES:

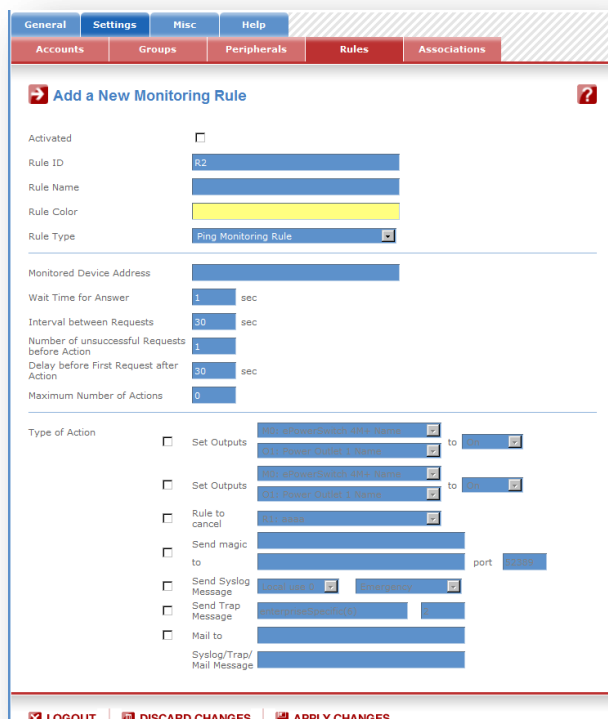
Click "Discard Changes" at the bottom of the page to discard all the changes you have made on this page.

APPLY CHANGES:

Click "Apply Changes" at the bottom of the page to save changes.

Settings / Rules - Ping Monitoring Rule

This rule can be used to check if a computer or any IP device is connected to the network. It sends ping packets and listens for replies from the specific host. If the host doesn't reply, the ePowerSwitch 8XM+ can automatically switch the powered device off and after a specified delay, switch it again on (for details see Ping & Scan Method).



Activated

This check box must be checked to activate the Rule and enables to deactivate temporarily a rule while keeping all its settings for a later use.

Rule ID:

The ePowerSwitch 8XM+ automatically creates an ID Code to clearly identify each rule. All the ID Codes used to identify rules start with the letter "R" followed by a number from 1 to 32. If you delete a rule in the middle of the Rule list, the number of this rule will only be used again if no other rule is available.

Rule Name:

In this field, enter the name you want to give to the rule. The name can be from 1 to 32 characters long, and can contain alphanumeric characters.



Do not use quotes or special characters in labels!

Rule Color:

In this field, select one of the 48 standard colours you want to use to highlight the rule when executed. To use own colours, just type in the Hex value of the colour you want. The Rule highlighting allows to quickly identify the triggered rule when displayed in the Rule Panel page or in a special users page.

Rule Type:

In this drop-down list, choose Ping Monitoring Rule then configure the event and the actions to perform.

Configuring the Event

Monitored device address:

In this field enter the IP address of the IP device that you want to monitor using the Ping command.

Wait Time for Answer:

In this field, define the delay in seconds for the Answer Timeout. The delay can be set between 1 and 10 seconds.

Interval between Requests:

In this field, define the delay in seconds between ping commands sent to the IP device to monitor. The delay can set between 30 and 65535 seconds.

Number of unsuccessful Requests before Action:

In this field, define the number of Ping commands to be sent to the IP device before executing the actions. The number can be set between 1 and 65535 seconds.

Delay before First Request after Action:

In this field, define the time in seconds before restarting the monitoring after the reboot action. The delay can be set between 30 and 65535 seconds.

Maximum Number of Actions

In this field, define the maximum number of actions. The number can be set between 0 and 255.

Configuring the Action(s)**Type of Actions:**

For the Event defined above, you can choose and configure following actions:

Set Outputs

This type of Action only appears if:

- your Device has own Power Outlets or has access to Power Outlets of connected xBus Peripheral Units
- your Device has access to Relay Outputs of connected xBus Peripheral Units
- you have created interface associations (Go to Settings/Associations).

Select this checkbox and choose in the corresponding drop-down lists the Output to use for this Rule.

Each Power Outlet can be switched to On, Off or Restarted.

If you choose "Restart" you can also define a Restart delay between 0 and 3600 seconds.

- If you choose 0 second for the delay, the delay will be the delay defined in the Peripherals page (goto Settings/Peripherals/Edit).
- If you choose a delay different from 0, this delay will replace the delay defined in the Peripherals page (goto Settings/Peripherals/Edit).

Each Relay Output can be switched to Open, Close, Pulse Open, Pulse Close.

If you choose Pulse open or Pulse close you can also define a delay between 0 and 3600 seconds.

- If you choose 0 second for the delay, the delay will be the delay defined in the Peripherals page (goto Settings/Peripherals/Edit).
- If you choose a delay different from 0, this delay will replace the delay defined Peripherals page (goto Settings/Peripherals/Edit).

Rule to cancel

This type of Action only appears if you already have created a Rule which you want to cancel

Select this checkbox and choose in the corresponding drop-down lists the Rule you want to cancel.

Send Magic to

Your Device has the possibility to send a Magic Word over IP to another Device in order to remotely trigger an action.

- Send magic: specify the Magic Word to use, it can be from 1 to 32 characters long, and can contain alphanumeric characters.
- to: specify the IP address of the destination device
- port: specify the Port number used to send the Magic Word, default port number is 52389

Send Syslog Message

This type of Action can only be configured if you have already specified at least one destination Syslog Server (Go to General/Log Settings Page).

Check this box if you want to send a message to a Syslog server. In the following drop-down lists choose the facility and the severity of the message to send.

Send Trap Message

 **This type of Action appears and can be configured only if you have already specified at least one destination SNMP Server (Go to General/SNMP Page).**


Check this/these box(es) and specify one or two SNMP addresses in the corresponding field if you want to send SNMP messages to one or two SNMP Servers.

Mail to

 **This Action can only be configured if you have already specified an SMTP Mail Server (Go to General/SMTP).**

Check this box and specify a valid email address.

Syslog / Trap / Mail Message

 **This field can only be configured if you already have specified at least one destination Syslog Server (General/Log Settings Page) or one destination SNMP Server (Goto General/SNMP Page).**

Up to 255 characters may be entered in this free text field. The text will appear in the Syslog, the Trap and the emails.

The message can be completed with the status of an input (a power supply or door contact for example) or the value of a sensor (a temperature sensor for example). For this, simply enter, between two "%" characters, the ID of the corresponding input Device.

LOGOUT:

Click "Logout" at the bottom of the page to exit the session without saving changes.

DISCARD CHANGES:

Click "Discard Changes" at the bottom of the page to discard all the changes you have made on this page.

APPLY CHANGES:

Click "Apply Changes" at the bottom of the page to save changes.

Settings / Rules - Scan Monitoring Rule

This rule can be used to check if a specific protocol is available on a server (for example HTTP, FTP, Telnet, POP...). If the connection is possible, ePowerSwitch 8XM+ knows that a server program is running there. If the connection is not possible, ePowerSwitch 8XM+ can automatically switch the powered device off and, after a specified delay, switch it again on (for details see Ping & Scan Method).



Activated

This check box must be checked to activate the Rule and enables to deactivate temporarily a rule while keeping all its settings for a later use.

Rule ID:

The ePowerSwitch 8XM+ automatically creates an ID Code to clearly identify each rule. All the ID Codes used to identify rules start with the letter "R" followed by a number from 1 to 32. If you delete a rule in the middle of the Rule list, the number of this rule will only be used again if no other rule is available.

Rule Name:

In this field, enter the name you want to give to the rule. The name can be from 1 to 32 characters long, and can contain alphanumeric characters.



Do not use quotes or special characters in labels!

Rule Color:

In this field, select one of the 48 standard colours you want to use to highlight the rule when executed. To use own colours, just type in the Hex value of the colour you want. The Rule highlighting allows to quickly identify the triggered rule when displayed in the Rule Panel page or in a special users page.

Rule Type:

In this drop-down list, choose Scan Monitoring Rule then configure the event and the actions to perform.

Configuring the Event

Monitored Device Address:

In this field, enter the IP address of the IP device that you want to monitor using the Scan command. In the "Port to scan" field, enter the port number you want to monitor.

The value can be set between 1 and 65535.

Wait Time for Answer:

In this field, define the delay in seconds for the Answer Timeout.
The delay can be set between 1 and 10 seconds.

Interval between Requests:

In this field, define the delay between the scan commands sent to the IP device. The delay can be set between 30 and 65535 seconds.

Number of unsuccessful Requests before Action:

In this field, define the number of Port scanning commands to be sent to the IP device before executing the actions.

The number can be set between 1 and 65535 seconds.

Delay before First Request after Action:

In this field, define the time in seconds before restarting the monitoring after the reboot action. The delay can be set between 30 and 65535 seconds.

Maximum Number of Actions

You can limit the number of times the action can be executed. This option is useful to limit the number of times a server can be rebooted. In this field, define the number of times the rule can be executed.

The delay can be set between 0 and 255 seconds. Default is 0 and means that the action can be performed continuously.

Configuring the Actions

For the Event defined above, you can choose and configure following actions:

Set Outputs

This type of Action only appears if:

- **your Device has own Power Outlets or has access to Power Outlets of connected xBus Peripheral Units**
- **your Device has access to Relay Outputs of connected xBus Peripheral Units**
- **you have created interface associations (Go to Settings/Associations).**

Select this checkbox and choose in the corresponding drop-down lists the Output to use for this Rule.
Each Power Outlet can be switched to On, Off or Restarted.

If you choose "Restart" you can also define a Restart delay between 0 and 3600 seconds.

- If you choose 0 second for the delay, the delay will be the delay defined in the Peripherals page (goto Settings/Peripherals/Edit).
- If you choose a delay different from 0, this delay will replace the delay defined in the Peripherals page (goto Settings/Peripherals/Edit).

Each Relay Output can be switched to Open, Close, Pulse Open, Pulse Close.

If you choose Pulse open or Pulse close you can also define a delay between 0 and 3600 seconds.

- If you choose 0 second for the delay, the delay will be the delay defined in the Peripherals page (goto Settings/Peripherals/Edit).
- If you choose a delay different from 0, this delay will replace the delay defined Peripherals page (goto Settings/Peripherals/Edit).

Rule to cancel

This type of Action only appears if you already have created a Rule which you want to cancel

Select this checkbox and choose in the corresponding drop-down lists the Rule you want to cancel.

Send Magic to

Your Device has the possibility to send a Magic Word over IP to another Device in order to remotely trigger an action.

- Send magic: specify the Magic Word to use, it can be from 1 to 32 characters long, and can contain alphanumeric characters.
- to: specify the IP address of the destination device
- port: specify the Port number used to send the Magic Word, default port number is 52389

Send Syslog Message

This type of Action can only be configured if you have already specified at least one destination Syslog Server (Go to General/Log Settings Page).

Check this box if you want to send a message to a Syslog server. In the following drop-down lists choose the facility and the severity of the message to send.

Send Trap Message

Note

This type of Action appears and can be configured only if you have already specified at least one destination SNMP Server (Go to General/SNMP Page).

Check this/these box(es) and specify one or two SNMP addresses in the corresponding field if you want to send SNMP messages to one or two SNMP Servers.

Mail to

Note

This Action can only be configured if you have already specified an SMTP Mail Server (Go to General/SMTP).

Check this box and specify a valid email address.

Syslog / Trap / Mail Message

Note

This field can only be configured if you already have specified at least one destination Syslog Server (General/Log Settings Page) or one destination SNMP Server (Goto General/SNMP Page).

Up to 255 characters may be entered in this free text field. The text will appear in the Syslog, the Trap and the emails.

The message can be completed with the status of an input (a power supply or door contact for example) or the value of a sensor (a temperature sensor for example). For this, simply enter, between two "%" characters, the ID of the corresponding input Device.

LOGOUT:

Click "Logout" at the bottom of the page to exit the session without saving changes.

DISCARD CHANGES:

Click "Discard Changes" at the bottom of the page to discard all the changes you have made on this page.

APPLY CHANGES:

Click "Apply Changes" at the bottom of the page to save changes.

Settings / Rules - Power Supply Monitoring Rule

This rule can be used to monitor the status of the 2 power supplies of the ePowerSwitch 8XM+ and the power supplies of connected peripherals like ePowerSwitch 8XS and Digital Input Modules.



Activated

This check box must be checked to activate the Rule and enables to deactivate temporarily a rule while keeping all its settings for a later use.

Rule ID:

The ePowerSwitch 8XM+ automatically creates an ID Code to clearly identify each rule. All the ID Codes used to identify rules start with the letter "R" followed by a number from 1 to 32. If you delete a rule in the middle of the Rule list, the number of this rule will only be used again if no other rule is available.

Rule Name:

In this field, enter the name you want to give to the rule. The name can be from 1 to 32 characters long, and can contain alphanumeric characters.

Do not use quotes or special characters in labels!



Rule Color:

In this field, select one of the 48 standard colours you want to use to highlight the rule when executed. To use own colours, just type in the Hex value of the colour you want. The Rule highlighting allows to quickly identify the triggered rule when displayed in the Rule Panel page or in a special users page.

Rule Type:

In this drop-down list, choose Power Supply Monitoring Rule then configure the event and the actions to perform.

Configuring the Event

Power Input to monitor:

In the first Drop-Down list choose the device for which you want to monitor the power supplies. Each device name is preceded by the ID Code of the device.

- M0 for the ePowerSwitch 8XM+,
- S1 to S16 for the ePowerSwitch Satellite units,
- DIM1 to DIM16 for Digital Input Modules.

A character between brackets can follow this ID Code:

- The "X" character means that the corresponding peripheral is physically not connected.
- The "!" character means that the corresponding peripheral is physically connected but not activated.

If you want to activate it, go to the "Settings/Power Outlets" tab.

- The " " character (blank) means that the corresponding satellite is physically connected and activated. In the second Drop-Down list, choose the power input (Input A or Input B) you wish to monitor.

Action if power supply...:

In this Drop-Down list, choose if the action has to be executed on power on or power failure.

Alarm Duration

By checking this box, you can enter a duration for the selected Digital Input. This Digital Input will then trigger the corresponding action(s) only if the alarm was active for this period. The value can be set between 0 and 60 sec..

Trigger Delay

By checking this box, you can enter a trigger delay for the selected Digital Input. This Digital Input will then trigger the corresponding action(s) only after the specified delay. The value can be set between 1 and 60 sec

Configuring the Actions

Type of Action

For the Event defined above, you can choose and configure following actions:

Set Outputs

This type of Action only appears if:

- your Device has own Power Outlets or has access to Power Outlets of connected xBus Peripheral Units

- your Device has access to Relay Outputs of connected xBus Peripheral Units

- you have created interface associations (Go to Settings/Associations).

Select this checkbox and choose in the corresponding drop-down lists the Output to use for this Rule.

Each Power Outlet can be switched to On, Off or Restarted.

If you choose "Restart" you can also define a Restart delay between 0 and 3600 seconds.

- If you choose 0 second for the delay, the delay will be the delay defined in the Peripherals page (goto Settings/Peripherals/Edit).

- If you choose a delay different from 0, this delay will replace the delay defined in the Peripherals page (goto Settings/Peripherals/Edit).

Each Relay Output can be switched to Open, Close, Pulse Open, Pulse Close.

If you choose Pulse open or Pulse close you can also define a delay between 0 and 3600 seconds.

- If you choose 0 second for the delay, the delay will be the delay defined in the Peripherals page (goto Settings/Peripherals/Edit).

- If you choose a delay different from 0, this delay will replace the delay defined Peripherals page (goto Settings/Peripherals/Edit).

Rule to cancel

This type of Action only appears if you already have created a Rule which you want to cancel

Select this checkbox and choose in the corresponding drop-down lists the Rule you want to cancel.

Send Magic to

Your Device has the possibility to send a Magic Word over IP to another Device in order to remotely trigger an action.

- Send magic: specify the Magic Word to use, it can be from 1 to 32 characters long, and can contain alphanumeric characters.

- to: specify the IP address of the destination device

- port: specify the Port number used to send the Magic Word, default port number is 52389

Send Syslog Message

This type of Action can only be configured if you have already specified at least one destination Syslog Server (Go to General/Log Settings Page).

Check this box if you want to send a message to a Syslog server. In the following drop-down lists choose the facility and the severity of the message to send.

Send Trap Message

This type of Action appears and can be configured only if you have already specified at least one destination SNMP Server (Go to General/SNMP Page).

Check this/these box(es) and specify one or two SNMP addresses in the corresponding field if you want to send SNMP messages to one or two SNMP Servers.



Mail to

Note

This Action can only be configured if you have already specified an SMTP Mail Server (Go to General/SMTP).

Check this box and specify a valid email address.

Syslog / Trap / Mail Message

Note

This field can only be configured if you already have specified at least one destination Syslog Server (General/Log Settings Page) or one destination SNMP Server (Goto General/SNMP Page).

Up to 255 characters may be entered in this free text field. The text will appear in the Syslog, the Trap and the emails.

The message can be completed with the status of an input (a power supply or door contact for example) or the value of a sensor (a temperature sensor for example). For this, simply enter, between two "%" characters, the ID of the corresponding input Device.

LOGOUT:

Click "Logout" at the bottom of the page to exit the session without saving changes.

DISCARD CHANGES:

Click "Discard Changes" at the bottom of the page to discard all the changes you have made on this page.

APPLY CHANGES:

Click "Apply Changes" at the bottom of the page to save changes.

Settings / Rules - Digital Input Monitoring Rule

This rule can be used to monitor the status of a digital input on the front of the ePowerSwitch 8XM+ or on any digital input module connected on the xbus interface (door contact, smoke and water detector, a proximity sensor, push button, ...) and to initiate different actions if the contact status has changed.



Activated

This check box must be checked to activate the Rule and enables to deactivate temporarily a rule while keeping all its settings for a later use.

Rule ID:

The ePowerSwitch 8XM+ automatically creates an ID Code to clearly identify each rule. All the ID Codes used to identify rules start with the letter "R" followed by a number from 1 to 32. If you delete a rule in the middle of the Rule list, the number of this rule will only be used again if no other rule is available.

Rule Name:

In this field, enter the name you want to give to the rule. The name can be from 1 to 32 characters long, and can contain alphanumeric characters.

Do not use quotes or special characters in labels!



Rule Color:

In this field, select one of the 48 standard colours you want to use to highlight the rule when executed. To use own colours, just type in the Hex value of the colour you want. The Rule highlighting allows to quickly identify the triggered rule when displayed in the Rule Panel page or in a special users page.

Rule Type:

In this drop-down list, choose Digital Input Monitoring Rule then configure the event and the actions to perform.

Configuring the Event

Digital Input to monitor:

In the first drop-down list, choose the device you want to monitor:

- M0 for ePowerSwitch 8XM+,
- TP followed by a number for a Proximity Sensor,

- DIM followed by a number for a Digital Input Module,
- TDE followed by a number for a TDE temperature sensor,
- PB followed by a number for a Push Button.

In the second drop-down list, choose the Input you want to monitor. The ePowerSwitch 8XM+ uses ID Codes to clearly identify each Input:

- PS followed by a number for the IR proximity sensor inputs,
- DI followed by a number for the digital inputs of a DIM module,
- EOL followed by a number for the End of Line of a TDE temperature sensor.
- SP followed by a number for a short push on the push buttons,
- LP followed by a number for a long push on the push buttons.

Action if Digital Input switches to...:

In this Drop-Down list choose if the action has to be executed when:

- a contact opens or closes,
- when a push button is used (On or Off),
- when a IR proximity sensor detects a presence (On or Off).

Alarm Duration

By checking this box, you can enter a duration for the selected Digital Input. This Digital Input will then trigger the corresponding action(s) only if the alarm was active for this period. The value can be set between 0 and 60 sec..

Trigger Delay

By checking this box, you can enter a trigger delay for the selected Digital Input. This Digital Input will then trigger the corresponding action(s) only after the specified delay. The value can be set between 1 and 60 sec

Configuring the Actions

Type of Action

For the Event defined above, you can choose and configure following actions:

Set Outputs

This type of Action only appears if:

- your Device has own Power Outlets or has access to Power Outlets of connected xBus Peripheral Units
- your Device has access to Relay Outputs of connected xBus Peripheral Units
- you have created interface associations (Go to Settings/Associations).

Select this checkbox and choose in the corresponding drop-down lists the Output to use for this Rule.

Each Power Outlet can be switched to On, Off or Restarted.

If you choose "Restart" you can also define a Restart delay between 0 and 3600 seconds.

- If you choose 0 second for the delay, the delay will be the delay defined in the Peripherals page (goto Settings/Peripherals/Edit).
- If you choose a delay different from 0, this delay will replace the delay defined in the Peripherals page (goto Settings/Peripherals/Edit).

Each Relay Output can be switched to Open, Close, Pulse Open, Pulse Close.

If you choose Pulse open or Pulse close you can also define a delay between 0 and 3600 seconds.

- If you choose 0 second for the delay, the delay will be the delay defined in the Peripherals page (goto Settings/Peripherals/Edit).
- If you choose a delay different from 0, this delay will replace the delay defined Peripherals page (goto Settings/Peripherals/Edit).

Rule to cancel

This type of Action only appears if you already have created a Rule which you want to cancel

Select this checkbox and choose in the corresponding drop-down lists the Rule you want to cancel.

Send Magic to



Your Device has the possibility to send a Magic Word over IP to another Device in order to remotely trigger an action.

- Send magic: specify the Magic Word to use, it can be from 1 to 32 characters long, and can contain alphanumeric characters.
- to: specify the IP address of the destination device
- port: specify the Port number used to send the Magic Word, default port number is 52389

Send Syslog Message

 **This type of Action can only be configured if you have already specified at least one destination Syslog Server (Go to General/Log Settings Page).**


Check this box if you want to send a message to a Syslog server. In the following drop-down lists choose the facility and the severity of the message to send.

Send Trap Message

 **This type of Action appears and can be configured only if you have already specified at least one destination SNMP Server (Go to General/SNMP Page).**

Check this/these box(es) and specify one or two SNMP addresses in the corresponding field if you want to send SNMP messages to one or two SNMP Servers.

Mail to

 **This Action can only be configured if you have already specified an SMTP Mail Server (Go to General/SMTP).**

Check this box and specify a valid email address.

Syslog / Trap / Mail Message

 **This field can only be configured if you already have specified at least one destination Syslog Server (General/Log Settings Page) or one destination SNMP Server (Goto General/SNMP Page).**

Up to 255 characters may be entered in this free text field. The text will appear in the Syslog, the Trap and the emails.

The message can be completed with the status of an input (a power supply or door contact for example) or the value of a sensor (a temperature sensor for example). For this, simply enter, between two "%" characters, the ID of the corresponding input Device.

LOGOUT:

Click "Logout" at the bottom of the page to exit the session without saving changes.

DISCARD CHANGES:

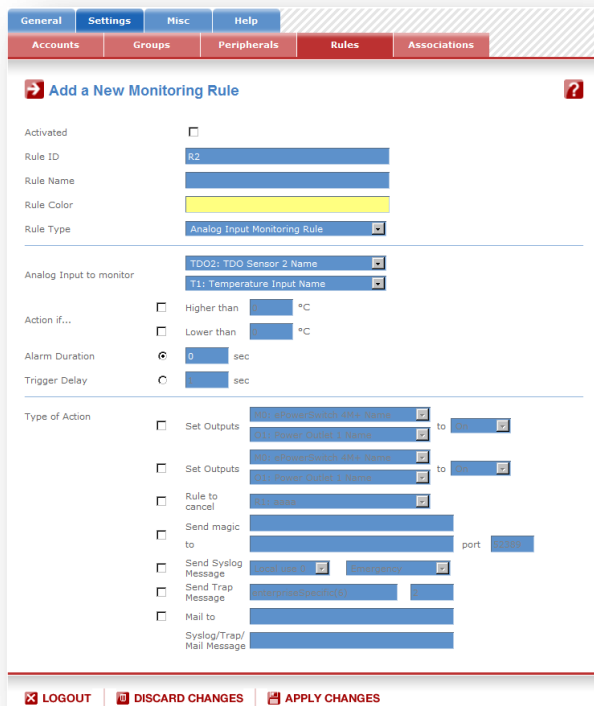
Click "Discard Changes" at the bottom of the page to discard all the changes you have made on this page.

APPLY CHANGES:

Click "Apply Changes" at the bottom of the page to save changes.

Settings / Rules - Analog Input Monitoring Rule

This rule can be used to monitor an Analog Input value (temperature, humidity, ambient light, current....) and perform actions when the predefined value is exceeded.



Activated

This check box must be checked to activate the Rule and enables to deactivate temporarily a rule while keeping all its settings for a later use.

Rule ID:

The ePowerSwitch 8XM+ automatically creates an ID Code to clearly identify each rule. All the ID Codes used to identify rules start with the letter "R" followed by a number from 1 to 32. If you delete a rule in the middle of the Rule list, the number of this rule will only be used again if no other rule is available.

Rule Name:

In this field, enter the name you want to give to the rule. The name can be from 1 to 32 characters long, and can contain alphanumeric characters.



Do not use quotes or special characters in labels!

Rule Color:

In this field, select one of the 48 standard colours you want to use to highlight the rule when executed. To use own colours, just type in the Hex value of the colour you want. The Rule highlighting allows to quickly identify the triggered rule when displayed in the Rule Panel page or in a special users page.

Rule Type:

In this drop-down list, choose Analog Input Monitoring Rule then configure the event and the actions to perform.

Configuring the Event

Analog Input to monitor:

Choose in the first Drop-Down list the device you want to monitor.

- temperature, humidity and ambient light sensors,
- current probes,
- EnergyMeter,
- ePowerSwitch 8XS /32.

Each device name, which can be defined by the administrator (go to Settings/Sensors Tab), is preceded by the ID Code of the device. For example, all ID Codes used to identify temperature sensors start with the character "T" followed by a number.

A character between brackets can follow this ID Code:

- The "X" character means that the corresponding sensor is physically not connected.
- The "!" character means that the corresponding sensor is physically connected but not activated. If you want to activate it, go to the "Settings/Power Outlets" tab.
- The " " character (blank) means that the corresponding sensor is physically connected and activated.

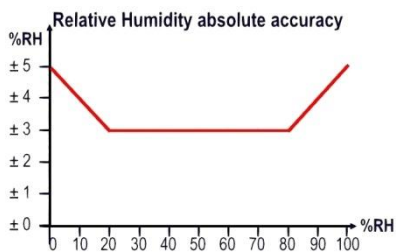
According to the device you use, choose the Analog Input in the second Drop-Down (temperature, humidity, light, current, energy...).

Action if:

The options "higher than" and "lower than" enable you to define when the rule has to be executed.

- Choose "higher than" if you want to execute the rule when the environment value exceeds the value you defined in the field on the right of "higher than".
- Choose "lower than" if you want to execute the rule when the environment value is below the value you defined in the field on the right of "lower than".

- For temperature, you can define values between -25°C and 60°C, +/- 2°C.
- For relative humidity, you can define values between 20 RH and 80 RH, +/- 3%.



- For ambient light, you can define values between 0 and 1000 Lux.
- For the effective current (rms), you can define values between 1 and 10 Amps.

Alarm Duration

By checking this box, you can enter a duration for the selected Digital Input. This Digital Input will then trigger the corresponding action(s) only if the alarm was active for this period. The value can be set between 0 and 60 sec..

Trigger Delay

By checking this box, you can enter a trigger delay for the selected Digital Input. This Digital Input will then trigger the corresponding action(s) only after the specified delay. The value can be set between 1 and 60 sec

Configuring the Actions

For the Event defined above, you can choose and configure the following actions:

Set Outputs

This type of Action only appears if:

- **your Device has own Power Outlets or has access to Power Outlets of connected xBus Peripheral Units**
- **your Device has access to Relay Outputs of connected xBus Peripheral Units**
- **you have created interface associations (Go to Settings/Associations).**

Select this checkbox and choose in the corresponding drop-down lists the Output to use for this Rule. Each Power Outlet can be switched to On, Off or Restarted.

If you choose "Restart" you can also define a Restart delay between 0 and 3600 seconds.

- If you choose 0 second for the delay, the delay will be the delay defined in the Peripherals page (goto Settings/Peripherals/Edit).

- If you choose a delay different from 0, this delay will replace the delay defined in the Peripherals page (goto Settings/Peripherals/Edit).

Each Relay Output can be switched to Open, Close, Pulse Open, Pulse Close.

If you choose Pulse open or Pulse close you can also define a delay between 0 and 3600 seconds.



- If you choose 0 second for the delay, the delay will be the delay defined in the Peripherals page (goto Settings/Peripherals/Edit).
- If you choose a delay different from 0, this delay will replace the delay defined Peripherals page (goto Settings/Peripherals/Edit).

Rule to cancel

This type of Action only appears if you already have created a Rule which you want to cancel
Select this checkbox and choose in the corresponding drop-down lists the Rule you want to cancel.

Send Magic to

Your Device has the possibility to send a Magic Word over IP to another Device in order to remotely trigger an action.

- Send magic: specify the Magic Word to use, it can be from 1 to 32 characters long, and can contain alphanumeric characters.
- to: specify the IP address of the destination device
- port: specify the Port number used to send the Magic Word, default port number is 52389

Send Syslog Message

This type of Action can only be configured if you have already specified at least one destination Syslog Server (Go to General/Log Settings Page).

Check this box if you want to send a message to a Syslog server. In the following drop-down lists choose the facility and the severity of the message to send.

Send Trap Message

This type of Action appears and can be configured only if you have already specified at least one destination SNMP Server (Go to General/SNMP Page).

Check this/these box(es) and specify one or two SNMP addresses in the corresponding field if you want to send SNMP messages to one or two SNMP Servers.

Mail to

This Action can only be configured if you have already specified an SMTP Mail Server (Go to General/SMTP).

Check this box and specify a valid email address.

Syslog / Trap / Mail Message

This field can only be configured if you already have specified at least one destination Syslog Server (General/Log Settings Page) or one destination SNMP Server (Goto General/SNMP Page).

Up to 255 characters may be entered in this free text field. The text will appear in the Syslog, the Trap and the emails.

The message can be completed with the status of an input (a power supply or door contact for example) or the value of a sensor (a temperature sensor for example). For this, simply enter, between two "%" characters, the ID of the corresponding input Device.

LOGOUT:

Click "Logout" at the bottom of the page to exit the session without saving changes.

DISCARD CHANGES:

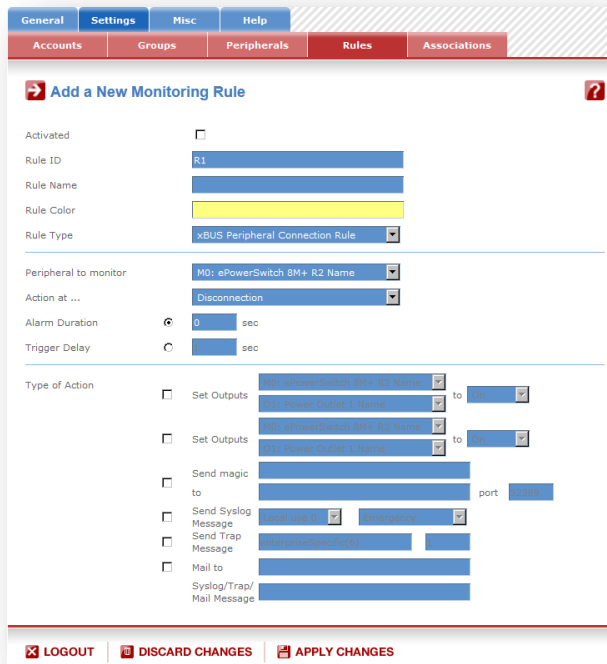
Click "Discard Changes" at the bottom of the page to discard all the changes you have made on this page.

APPLY CHANGES:

Click "Apply Changes" at the bottom of the page to save changes.

Settings / Rules - xBus Peripheral Connection Rule

This Rule is used to monitor analog input signals (temperature, humidity, ambient light, current, voltage, power consumption) and to trigger Actions when a predefined value is exceeded.



Activated

This check box must be checked to activate the Rule. It enables to deactivate temporarily a Rule while keeping all its settings for a later use.

Rule ID

The administrator can create up to 255 Rules and the Power Switch automatically creates an ID Code to clearly identify each Rule. These codes start with the character "R" followed by a number from 1 to 255.

Rule Name

In this field, enter the name you want to give to the Rule. The name can be from 1 to 32 characters long, and can contain alphanumeric characters.

Rule Color

In this Drop-Down Color Picker, choose the color you want to apply for the rule in the Rule Panel page (Go to Misc/Rule Panel) if the rule is triggered.

Rule Type

In this Drop-Down list, choose Analog Input Monitoring Rule.

Rules are used to control Actions according to a specific event. First you will have to configure the chosen event as follows, then you will choose the Action(s) to perform.

Configuring the Event

Peripheral to monitor

In the first Drop-Down list choose the sensor you want to use.

A character between brackets can follow this ID Code:

- The "X" character means that the corresponding peripheral is physically not connected.
- The "!" character means that the corresponding peripheral is physically connected but not activated. If you want to activate it, go to the "Settings/Power Outlets" Page.
- The " " character (blank) means that the corresponding peripheral is physically connected and activated.

In the second Drop-Down list, choose the power input (Input A or Input B) you wish to monitor.

Action at...

The options "higher than" and "lower than" enable you to define when the Rule has to be executed.

- Choose "higher than" if you want to execute the Rule if the environment value exceeds the value you defined in the field on the right of "higher than".
 - Choose "lower than" if you want to execute the Rule if the environment value is below the value you defined in the field on the right of "lower than".
- For temperature, you can define values between 0C and 50C
For relative humidity, you can define values between 10 RH and 90 RH

Alarm Duration

By checking this box, you can enter a duration for the selected Digital Input. This Digital Input will then trigger the corresponding action(s) only if the alarm was active for this period. The value can be set between 0 and 60 sec..

Trigger Delay

By checking this box, you can enter a trigger delay for the selected Digital Input. This Digital Input will then trigger the corresponding action(s) only after the specified delay. The value can be set between 1 and 60 sec

Configuring the Actions

Type of Action

For the Event defined above and depending on your Device, you can choose different Actions:

Set Outputs

This type of Action only appears if:

- **your Device has own Power Outlets or has access to Power Outlets of connected xBus Peripheral Units**
- **your Device has access to Relay Outputs of connected xBus Peripheral Units**
- **you have created interface associations (Go to Settings/Associations).**

Select this checkbox and choose in the corresponding drop-down lists the Output to use for this Rule. Each Power Outlet can be switched to On, Off or Restarted.

If you choose "Restart" you can also define a Restart delay between 0 and 3600 seconds.

- If you choose 0 second for the delay, the delay will be the delay defined in the Peripherals page (goto Settings/Peripherals/Edit).
- If you choose a delay different from 0, this delay will replace the delay defined in the Peripherals page (goto Settings/Peripherals/Edit).

Each Relay Output can be switched to Open, Close, Pulse Open, Pulse Close.

If you choose Pulse open or Pulse close you can also define a delay between 0 and 3600 seconds.

- If you choose 0 second for the delay, the delay will be the delay defined in the Peripherals page (goto Settings/Peripherals/Edit).
- If you choose a delay different from 0, this delay will replace the delay defined Peripherals page (goto Settings/Peripherals/Edit).

Rule to cancel

This type of Action only appears if you already have created a Rule which you want to cancel
Select this checkbox and choose in the corresponding drop-down lists the Rule you want to cancel.

Send Magic to

Your Device has the possibility to send a Magic Word over IP to another Device in order to remotely trigger an action.

- Send magic: specify the Magic Word to use, it can be from 1 to 32 characters long, and can contain alphanumeric characters.
- to: specify the IP address of the destination device
- port: specify the Port number used to send the Magic Word, default port number is 52389

Send Syslog Message

This type of Action can only be configured if you have already specified at least one destination Syslog Server (Go to General/Log Settings Page).

Check this box if you want to send a message to a Syslog server. In the following drop-down lists choose the facility and the severity of the message to send.

Send Trap Message

This type of Action appears and can be configured only if you have already specified at least one destination SNMP Server (Go to General/SNMP Page).

Check this/these box(es) and specify one or two SNMP addresses in the corresponding field if you want to send SNMP messages to one or two SNMP Servers.

Mail to

This Action can only be configured if you have already specified an SMTP Mail Server (Go to General/SMTP).

Check this box and specify a valid email address.

Syslog / Trap / Mail Message

This field can only be configured if you already have specified at least one destination Syslog Server (General/Log Settings Page) or one destination SNMP Server (Goto General/SNMP Page).

Up to 255 characters may be entered in this free text field. The text will appear in the Syslog, the Trap and the emails.

The message can be completed with the status of an input (a power supply or door contact for example) or the value of a sensor (a temperature sensor for example). For this, simply enter, between two "%" characters, the ID of the corresponding input Device.

LOGOUT

Click "Logout" at the bottom of the page to exit the session without saving changes.

DISCARD CHANGES

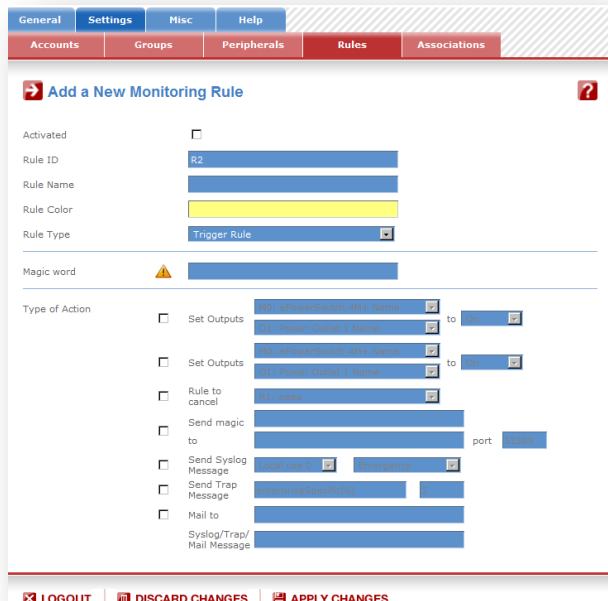
Click "Discard Changes" at the bottom of the page to discard all the changes you have made on this page.

APPLY CHANGES

Click "Apply Changes" at the bottom of the page to save changes.

Settings / Rules - Trigger

This Rule is used to send a request over the Internet from your Device to another Device. The request sent by your Device is used to trigger an Action on the second Device, for instance to remotely turn on or off a Power Outlet, to close or open a Relay, to send an Alarm Message (SNMP Trap, email or Syslog).



Activated

This check box must be checked to activate the Rule. It enables to deactivate temporarily a Rule while keeping all its settings for a later use.

Rule ID

The administrator can create up to 255 Rules and the Power Switch automatically creates an ID Code to clearly identify each Rule. These codes start with the character "R" followed by a number from 1 to 255.

Rule Name

In this field, enter the name you want to give to the Rule. The name can be from 1 to 32 characters long, and can contain alphanumeric characters.

Rule Color

In this Drop-Down Color Picker, choose the color you want to apply for the rule in the Rule Panel page (Go to Misc/Rule Panel) if the rule is triggered.

Rule Type

In this drop-down list, choose Trigger Rule then configure the event and the actions to perform.

Configuring the Event

Magic word:

In this field, enter the word you want to use to trigger the corresponding action on a remote device. The name can be from 1 to 32 characters long, and can contain alphanumeric characters.

Configuring the Actions

Type of Action

For the Event defined above and depending on your Device, you can choose different Actions:

Set Outputs

This type of Action only appears if:

- your Device has own Power Outlets or has access to Power Outlets of connected xBus Peripheral Units
- your Device has access to Relay Outputs of connected xBus Peripheral Units

- you have created interface associations (Go to Settings/Associations).

Select this checkbox and choose in the corresponding drop-down lists the Output to use for this Rule.

Each Power Outlet can be switched to On, Off or Restarted.

If you choose "Restart" you can also define a Restart delay between 0 and 3600 seconds.

- If you choose 0 second for the delay, the delay will be the delay defined in the Peripherals page (goto Settings/Peripherals/Edit).
- If you choose a delay different from 0, this delay will replace the delay defined in the Peripherals page (goto Settings/Peripherals/Edit).

Each Relay Output can be switched to Open, Close, Pulse Open, Pulse Close.

If you choose Pulse open or Pulse close you can also define a delay between 0 and 3600 seconds.

- If you choose 0 second for the delay, the delay will be the delay defined in the Peripherals page (goto Settings/Peripherals/Edit).
- If you choose a delay different from 0, this delay will replace the delay defined Peripherals page (goto Settings/Peripherals/Edit).

Rule to cancel

This type of Action only appears if you already have created a Rule which you want to cancel
Select this checkbox and choose in the corresponding drop-down lists the Rule you want to cancel.

Send Magic to

Your Device has the possibility to send a Magic Word over IP to another Device in order to remotely trigger an action.

- Send magic: specify the Magic Word to use, it can be from 1 to 32 characters long, and can contain alphanumeric characters.
- to: specify the IP address of the destination device
- port: specify the Port number used to send the Magic Word, default port number is 52389

Send Syslog Message

This type of Action can only be configured if you have already specified at least one destination Syslog Server (Go to General/Log Settings Page).

Check this box if you want to send a message to a Syslog server. In the following drop-down lists choose the facility and the severity of the message to send.

Send Trap Message

This type of Action appears and can be configured only if you have already specified at least one destination SNMP Server (Go to General/SNMP Page).

Check this/these box(es) and specify one or two SNMP addresses in the corresponding field if you want to send SNMP messages to one or two SNMP Servers.

Mail to

This Action can only be configured if you have already specified an SMTP Mail Server (Go to General/SMTP).

Check this box and specify a valid email address.

Syslog / Trap / Mail Message

This field can only be configured if you already have specified at least one destination Syslog Server (General/Log Settings Page) or one destination SNMP Server (Goto General/SNMP Page).

Up to 255 characters may be entered in this free text field. The text will appear in the Syslog, the Trap and the emails.

The message can be completed with the status of an input (a power supply or door contact for example) or the value of a sensor (a temperature sensor for example). For this, simply enter, between two "%" characters, the ID of the corresponding input Device.

LOGOUT

Click "Logout" at the bottom of the page to exit the session without saving changes.

DISCARD CHANGES

Click "Discard Changes" at the bottom of the page to discard all the changes you have made on this page.

APPLY CHANGES

Click "Apply Changes" at the bottom of the page to save changes.

Settings / Rules – Script Rule



Activated

This check box must be checked to activate the Rule. It enables to deactivate temporarily a Rule while keeping all its settings for a later use.

Rule ID

The administrator can create up to 255 Rules and the Power Switch automatically creates an ID Code to clearly identify each Rule. These codes start with the character "R" followed by a number from 1 to 255.

Rule Name

In this field, enter the name you want to give to the Rule. The name can be from 1 to 32 characters long, and can contain alphanumeric characters.

Rule Color

In this Drop-Down Color Picker, choose the color you want to apply for the rule in the Rule Panel page (Go to Misc/Rule Panel) if the rule is triggered.

Rule Type

In this drop-down list, choose Trigger Rule then configure the event and the actions to perform.

Configuring the Event

Script Action

First character must be '%' then choose the outlet, the power supply or the digital input with their states that you want to monitor. It allows you to make one combined rule with several others. To add more parameters type 'and' or 'or' to your code.

Alarm Duration

By checking this box, you can enter a duration for the selected Digital Input. This Digital Input will then trigger the corresponding action(s) only if the alarm was active for this period. The value can be set between 0 and 60 sec..

Trigger Delay

By checking this box, you can enter a trigger delay for the selected Digital Input. This Digital Input will then trigger the corresponding action(s) only after the specified delay. The value can be set between 1 and 60 sec

Configuring the Actions

Type of Action

For the Event defined above and depending on your Device, you can choose different Actions:

Set Outputs

This type of Action only appears if:

- **your Device has own Power Outlets or has access to Power Outlets of connected xBus Peripheral Units**
- **your Device has access to Relay Outputs of connected xBus Peripheral Units**
- **you have created interface associations (Go to Settings/Associations).**

Select this checkbox and choose in the corresponding drop-down lists the Output to use for this Rule. Each Power Outlet can be switched to On, Off or Restarted.

If you choose "Restart" you can also define a Restart delay between 0 and 3600 seconds.

- If you choose 0 second for the delay, the delay will be the delay defined in the Peripherals page (goto Settings/Peripherals/Edit).
- If you choose a delay different from 0, this delay will replace the delay defined in the Peripherals page (goto Settings/Peripherals/Edit).

Each Relay Output can be switched to Open, Close, Pulse Open, Pulse Close.

If you choose Pulse open or Pulse close you can also define a delay between 0 and 3600 seconds.

- If you choose 0 second for the delay, the delay will be the delay defined in the Peripherals page (goto Settings/Peripherals/Edit).
- If you choose a delay different from 0, this delay will replace the delay defined Peripherals page (goto Settings/Peripherals/Edit).

Rule to cancel

This type of Action only appears if you already have created a Rule which you want to cancel. Select this checkbox and choose in the corresponding drop-down lists the Rule you want to cancel.

Send Magic to

Your Device has the possibility to send a Magic Word over IP to another Device in order to remotely trigger an action.

- Send magic: specify the Magic Word to use, it can be from 1 to 32 characters long, and can contain alphanumeric characters.
- to: specify the IP address of the destination device
- port: specify the Port number used to send the Magic Word, default port number is 52389

Send Syslog Message

This type of Action can only be configured if you have already specified at least one destination Syslog Server (Go to General/Log Settings Page).

Check this box if you want to send a message to a Syslog server. In the following drop-down lists choose the facility and the severity of the message to send.

Send Trap Message

This type of Action appears and can be configured only if you have already specified at least one destination SNMP Server (Go to General/SNMP Page).

Check this/these box(es) and specify one or two SNMP addresses in the corresponding field if you want to send SNMP messages to one or two SNMP Servers.

Mail to

This Action can only be configured if you have already specified an SMTP Mail Server (Go to General/SMTP).

Check this box and specify a valid email address.

Syslog / Trap / Mail Message

This field can only be configured if you already have specified at least one destination Syslog Server (General/Log Settings Page) or one destination SNMP Server (Goto General/SNMP Page).

Up to 255 characters may be entered in this free text field. The text will appear in the Syslog, the Trap and the emails.

The message can be completed with the status of an input (a power supply or door contact for example) or the value of a sensor (a temperature sensor for example). For this, simply enter, between two "%" characters, the ID of the corresponding input Device.

LOGOUT

Click "Logout" at the bottom of the page to exit the session without saving changes.

DISCARD CHANGES

Click "Discard Changes" at the bottom of the page to discard all the changes you have made on this page.

APPLY CHANGES

Click "Apply Changes" at the bottom of the page to save changes.

Settings / Associations

This page is used to configure the settings related to Safe Shutdown and Wake on LAN. It enables to create an Association of interfaces which can be implemented in Rules or used manually with your browser.

Following associations can be created:

Safe Shutdown

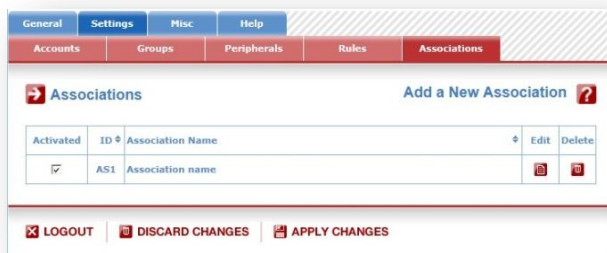
- Association of a Power Outlet (or a Group of Power Outlets) and an RS232 interface

Wake on LAN

- Association of a Power Outlet (or a Group of Power Outlets) and the MAC address of a Server

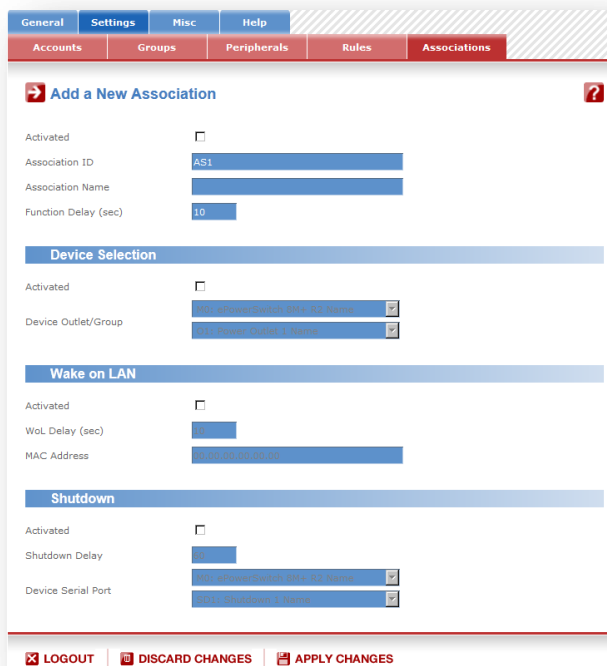
Safe Shutdown and Wake on LAN

- Association of a Power Outlet (or a Group of Power Outlets), an RS232 interface and the MAC address of a Server



- To remove an existing Association, click on the corresponding "Delete" button.
- To modify an Association, click on the corresponding "Edit" button.

This page is used to create, modify and delete an Association. Click on "Add a New Association" on the right side of the page. A new page appears, allowing you to set all the parameters.



Activated

This check box must be checked to activate the Association and enables to deactivate it temporarily while keeping all its settings for a later use.

Association ID

The Power Switch automatically creates ID codes to clearly identify each rule. The codes used to identify Associations start with the letters "AS" followed by a number.

Association Name

In this field, enter the name you want to give to the Association. The name can be from 1 to 32 characters long, and can contain alphanumeric characters.



Do not use quotes or special characters in labels!

Function Delay (after Shutdown before continue)

In this field, specify a delay after which the associated power outlet will be switch to off.

This delay is applicable only if the association does not have a Power Outlet. The delay can be set between 1 and 3600 seconds.

Device selection

Activated

This check box must be checked to activate the Device and enables to deactivate it temporarily while keeping all its settings for a later use.

Device

In the first drop-down list, choose the device you want to control. If the Power Switch is used as stand-alone unit, this Drop-Down list will only show the Power Switch itself.

In the second drop-down list, choose the power outlet you want to control.

Wake Up on LAN

Activated

This check box must be checked to activate the function and enables to deactivate it temporarily while keeping all its settings for a later use.

WoL Delay

In this field, enter the delay you want to define before the execution of the function.

MAC Address

In this field, enter the MAC address of the PC you want to associate on the Wake Up on LAN function.

Shutdown

Activated

This check box must be checked to activate the function and enables to deactivate it temporarily while keeping all its settings for a later use.

Shutdown Delay

In this field, enter the delay you want to define before the execution of the function.

Shutdown Device

In this Drop-Down list, choose the device which will be used to trigger the Shutdown action. If the Power Switch is used as stand-alone unit, this Drop-Down list will only show the Power Switch itself.

Group:



This type of action appears and can be configured only if you have already created at least one group (Settings/Groups Tab).

In this field, choose the group of power outlets which will be used for the Shutdown rule.

- To select a group, select the output you want to add in the left field and click on the Arrow button, the output will then appear in the right field.

- To remove the group displayed in the right field, select this group in the right field and click on the Arrow button, the group will then appear in the left field.

LOGOUT:

Click "Logout" at the bottom of the page to exit the session without saving changes.

DISCARD CHANGES:

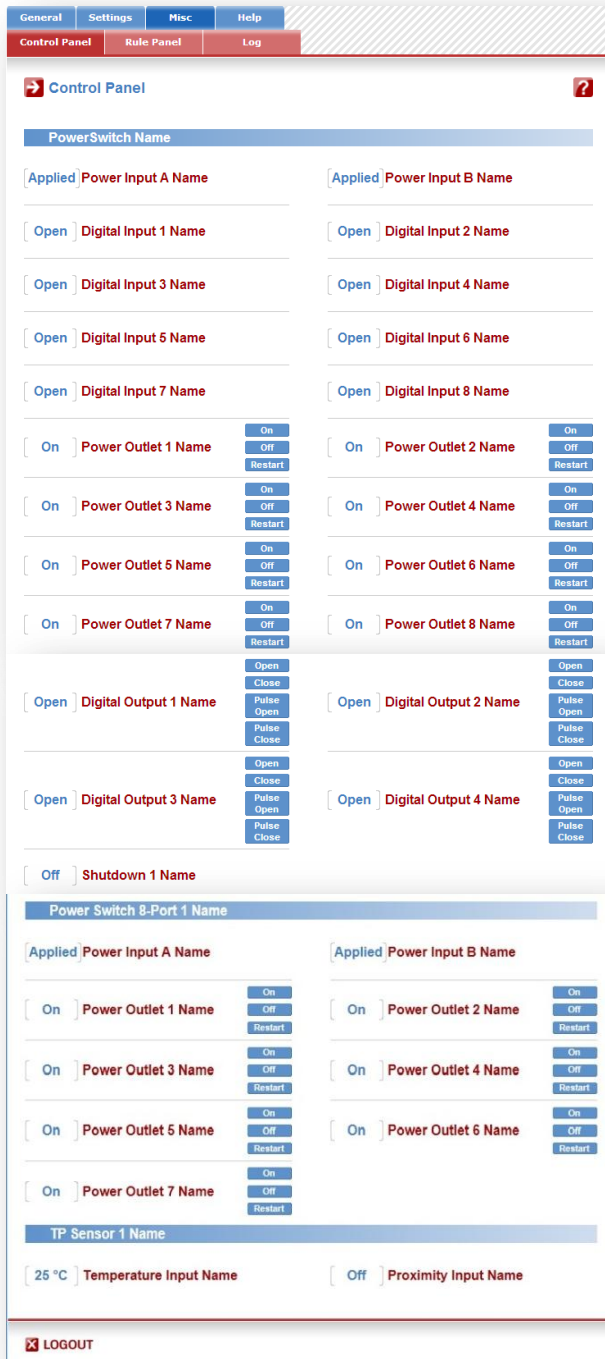
Click "Discard Changes" at the bottom of the page to discard all the changes you have made on this page.

APPLY CHANGES:

Click "Apply Changes" at the bottom of the page to save changes.

Misc / Control Panel

This page is very helpful for the administrator because it gives a complete overview of all the peripherals which are currently connected or have been connected to the ePowerSwitch 8XM+. At a glance, the administrator can check the status of the power supplies of the ePowerSwitch 8XM+ and the connected Peripherals. He can also check the values of the connected sensors, check the status of the connected dry contacts and of course control all the power outlets of the connected ePowerSwitch units.



The screenshot displays the 'Misc / Control Panel' interface. At the top, there are navigation tabs: 'General', 'Settings', 'Misc', and 'Help'. Below these are sub-tabs: 'Control Panel', 'Rule Panel', and 'Log'. The main content area is titled 'Control Panel' and contains several sections:

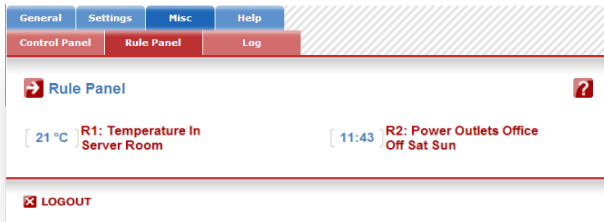
- PowerSwitch Name:** A section with a search bar and a list of controls. Each control includes a status indicator (e.g., 'Applied', 'Open', 'On', 'Off'), a name field, and a set of action buttons (On, Off, Restart, Pulse, Open, Close).
- Power Input A Name:** [Applied]
- Power Input B Name:** [Applied]
- Digital Input 1 Name:** [Open]
- Digital Input 2 Name:** [Open]
- Digital Input 3 Name:** [Open]
- Digital Input 4 Name:** [Open]
- Digital Input 5 Name:** [Open]
- Digital Input 6 Name:** [Open]
- Digital Input 7 Name:** [Open]
- Digital Input 8 Name:** [Open]
- Power Outlet 1 Name:** [On] with buttons: On, Off, Restart
- Power Outlet 2 Name:** [On] with buttons: On, Off, Restart
- Power Outlet 3 Name:** [On] with buttons: On, Off, Restart
- Power Outlet 4 Name:** [On] with buttons: On, Off, Restart
- Power Outlet 5 Name:** [On] with buttons: On, Off, Restart
- Power Outlet 6 Name:** [On] with buttons: On, Off, Restart
- Power Outlet 7 Name:** [On] with buttons: On, Off, Restart
- Power Outlet 8 Name:** [On] with buttons: On, Off, Restart
- Digital Output 1 Name:** [Open] with buttons: Open, Close, Pulse, Open, Pulse, Close
- Digital Output 2 Name:** [Open] with buttons: Open, Close, Pulse, Open, Pulse, Close
- Digital Output 3 Name:** [Open] with buttons: Open, Close, Pulse, Open, Pulse, Close
- Digital Output 4 Name:** [Open] with buttons: Open, Close, Pulse, Open, Pulse, Close
- Shutdown 1 Name:** [Off]

Below this section is another section titled 'Power Switch 8-Port 1 Name' with similar controls for Power Input A/B, Power Outlet 1-6, and a TP Sensor 1 Name section showing '25 °C' for Temperature Input Name and 'Off' for Proximity Input Name.

At the bottom left, there is a 'LOGOUT' button.

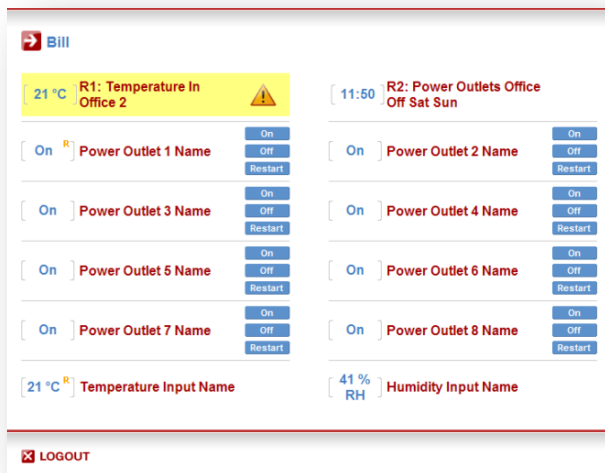
Misc / Rule Panel

This page shows all the rules the administrator has created and activated. The rules which have been executed can also be highlighted in different colours according to the emergency of the action. The highlight colours can be customized during the creation of the rule (Settings/Rules Page).



For supervision purpose, the administrator can create special accounts which display only some specific rules.

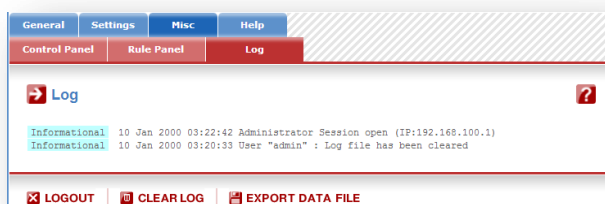
In the example below, the user Bill has the possibility to supervise 2 rules and to see on a glance the rules which have been triggered.



Note The page is automatically refreshed every 10 seconds. Unlike a standard session, the web server of the ePowerSwitch 8XM+ won't automatically close this kind of session. Opening many sessions of this affects the performances of the web server.

Misc / Log

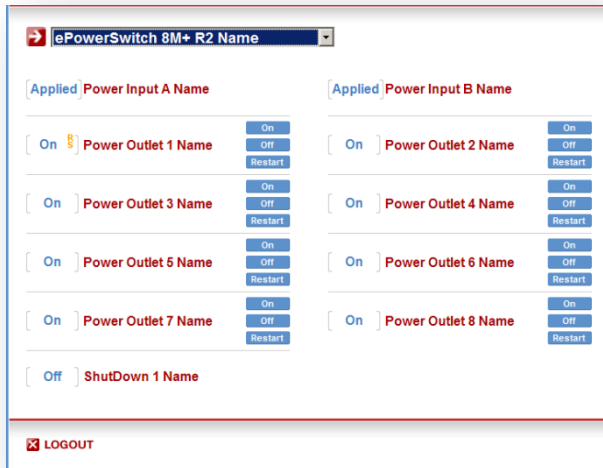
The log file keeps a running log of events and activities occurring on the device. The logs are automatically cleared when the device is rebooted. The file will display 10 recent logs.



Part IV : Power outlet control and peripherals status

Via the Internet using a standard browser

1. Start your Web browser and type the IP address of your ePowerSwitch 8XM+. The browser displays the authentication dialog box.
2. Enter a user name and its corresponding password. The status of the ePowerSwitch 8XM+ is displayed.



3. In the drop-down list, choose the power control unit you want to control or the peripheral for which you want to know the status.

If you log in as system administrator, you will be able to:

- control all the power outlets and all the power outlet groups of the connected ePowerSwitch devices,
- display the instant values of all the connected sensors (temperature, humidity, ambient light),
- display the status of all digital inputs.

If you log in as a user (ePowerSwitch 8XM+ handles up to 40 accounts), you will be able to:

- control individually all the power outlets and all the power outlet groups for which you have the rights,
- display the values of all the connected sensors for which you have the rights,
- display the status of all the digital inputs for which you have the rights.

The ON button allows you to switch ON the corresponding power outlet or group of power outlets.

The OFF button allows you to switch OFF the corresponding power outlet or group of power outlets.

The RESTART button allows you to switch OFF the corresponding power outlet or group of power outlets.

The power outlet or group of power outlets will then be automatically switched ON after the delay defined by the administrator (see Settings / power outlets Page).

Through a serial connection

The power outlets of the ePowerSwitch 8XM+ Master can be controlled using a simple ASCII protocol over an RS232 serial connection.

1. Use the supplied RS232 serial cable to connect the ePowerSwitch Master to an available serial port of your PC.
2. Run a terminal program such as Windows HyperTerminal or the MicroTerminal program on the CD (folder miscellaneous).
3. Configure the appropriate serial port with the following settings:
4. 9.600 bauds, 8 bits, no parity, 1 stop bit and no flow control.
If you use the MicroTerminal program on the CD (folder miscellaneous) you only have to choose the used serial port, this program is already configured at 9600,n,8,1.

On your computer, press <ENTER> until the configuration menu appears on your screen.

```

-----
NETWORK INTERFACE PARAMETERS:
  IP address on LAN is 192.168.1.240
  LAN interface's subnet mask is 255.255.255.0
  IP address of default gateway to other networks is 192.168.1.2
MISCELLANEOUS:
  HTTP Port is 80
  Finder program is enabled.
  HTTP config is enabled.
-----

```

Press M to modify these settings.

Syntax of the command line:

/POy=z (the command line MUST start with a slash)

Parameter	Value	Function
y	0	means that all 8 power outlets have to be controlled together with one command
	1 to 8	indicates the number of the power outlet you want to control
z	0	Command to switch the socket(s) Off
	1	Command to switch the socket(s) On
	r	Command to restart the socket(s)
	t	Command to toggle the state of the socket

Examples to control the Master:

```

/P00=1 <ENTER> switch all the 4 power outlets ON
/P00=0 <ENTER> switch all the 4 power outlets OFF
/P05=r <ENTER> restart power outlet 5
/P07=t <ENTER> toggle power outlet 7

```



- The ePowerSwitch accepts lower case and upper case commands.
- The ePowerSwitch sends an echo for each received character.

Through the network using simple commands in your own program

Developers who want to implement the power outlet control in own programs can access to a special page named hidden.htm and control individually the power outlets using simple commands.

To configure the Hidden Page Account, go to Settings / Accounts / Hidden Page Account.

Part V : Update

How to update products with Firmware version 3.x.x.x

To update your product, you need our Updater program for Windows which enables you to update nearly all our products. To receive this program for free, send us an email at support@neol.fr.

- The update can ONLY be done over the LAN (because we use a UDP Broadcast to discover the product to update).
- The IP address of the product to update MUST be **192.168.100.200**.
- The product to update MUST be accessible using a browser by the PC used for the Update. Please check before trying to update your product.
- It is NOT possible to update products using an old hardware (Firmware 2.x.x.x).

Update Procedure:

1. Connect the Power Switch to update to your LAN.
The address of the Power Switch must be 192.168.100.200.
2. Start the Updater program.
3. Click on the Scan button (first button in the tool bar). Your Power Switch will appear in the Updater Window. If not, check your network connection and press the SCAN button again.
4. Click on the Update button (second button in the tool bar) and follow the instructions on the screen.

Part VI : Appendix

Sending status information and sensor values using rules

The administrator can create rules (see Settings/Rules) to trigger actions and send personalized messages in form of Syslog messages or SNMP traps when an event occurs. Moreover, the administrator also has the possibility to complete his messages with status information of an input (a power supply or a door contact for example) or the value of a sensor (a temperature sensor for example).

In the "Syslog/Trap Message" field of the rule settings page, the administrator has simply to enter the ID of the input of which he wants to send the status or value. This ID is made of the ID of the device where the input is located and the ID of the input itself.



**The IDs have to be entered between two percent characters.
Many IDs can be specified in the text box but the message must not exceed 255.**

Syntax: %[device ID]:[input ID]%

To know all IDs currently used by the system, go to the "Settings/Rules" page and click on "Add a New Rule". The two IDs of the monitored input are displayed in the two fields in the middle of the page.

- To know all Digital Input IDs, choose "Digital Input Monitoring Rule" as Rule Type.
- To know all Analog Input IDs, choose "Analog Input Monitoring Rule" as Rule Type.
- To know all Power Status IDs, choose "Power Supply Monitoring Rule" as Rule Type.

Examples:

- To send the value of the T1 temperature, the administrator could add following line in the "Syslog/Trap Message" text area:

Temperature is %T1:T1%

- To send the state of the D1 door contact of the DIM1 Digital Input Module, the administrator could add following line in the "Syslog/Trap Message" text area:

Door contact status is %DIM1:D11%



The schedule rule can be used to send status information or sensor values on specified weekdays at regular interval.

Ping and Scan Methods

ePowerSwitch 8XM+ has two methods to check whether an IP equipment (PC, server, router, Webcam...) is still alive:

Address Pinging:

The first method uses the well-known Ping command whereby a request is sent to a specific IP address. The Ping command, which is an echo request, enables you to determine through an ICMP protocol (Internet Control Message Protocol) if an IP device is available on the network. If the system reacts to this request, ePowerSwitch 8XM+ knows that the TCP/IP connection is established. If the system does not react to one or several requests, ePowerSwitch 8XM+ can automatically switch the device off and after a specified delay switch it again on (Reboot function).

Port Scanning:

The second method uses the Port Scan command to test a specific TCP/IP port. In other words, this command allows you to find out if a specific protocol is available on a server (for example HTTP, FTP, Telnet, POP...). ePowerSwitch 8XM+ simply tries to connect to a specific server port. If the connection is possible, ePowerSwitch 8XM+ knows that a server program is running there. If the connection is not possible, ePowerSwitch 8XM+ can automatically switch the device off and after a specified delay switch it again on (Reboot function).



- **The Supervision function works only if the ePowerSwitch 8XM+ is connected to the LAN.**
- **The Ping and Scan functions can be used separately or together.**

- The network route between ePowerSwitch 8XM+ and the IP device you wish to supervise should be as direct as possible, so do not use unnecessary routers and complex wiring between them. A problem on a router or the wiring could reboot the IP device to supervise.
- Execute several Pings and/or Scans before running the Reboot function. It could be possible that the IP device doesn't respond although it is still working.
- Choose a realistic supervision cycle. One second is possible, however it's not necessary to overload the network with Ping and Scan requests.

Recommended values:

- Interval between Requests: 10 sec or more
- Number of unsuccessful Requests before Reboot: 3 or more
- Delay before Reboot: 10 sec or more
- Delay before restarting monitoring after Reboot: 120 sec or more

Technical Data

Network standards	IEEE 802.3, 10/100 BASE-T
Network protocols	TCP/IP, HTTP, HTTPS
xBus Network connection	RJ-45 connector for STP CAT5 Max. network cable length 200 meters
Terminal connection	RS232, SUB-D 9 female
Operating temperature	0°C to +50°C
Operating humidity	10% to 80% RH (not condensing)
Dimensions (LxDxH)	437 x 42 x 107 mm
Weight	2 kg
Approvals	CE, EN55022 & EN55024

Commonly used Ports

- TCP 80:** Used for HTTP connections.
TCP 443: Used for HTTPS connections
UDP 123: Used to allow time synchronization over NTP (Network Time Protocol).
UDP 161: Used for SNMP Requests.
UDP 162: Used for SNMP Traps.
UDP 514: Used to deliver Syslog messages.

Syslog Messages: Severity Level Definitions

The Emergency level is the most severe type of message generated by ePowerSwitch 8XM+ and the Debug severity level is the least severe one.

Severity Level 0, Emergency:

- The following messages appear at severity 0:
- Continuous error!

Severity Level 1, Alert:

- The following messages appear at severity 1:
- Settings have been reinitialized through the serial connection
 - ePowerSwitch 8XM+ does not respond
 - Satellite "number" does not respond
 - Sensor "number" does not respond
 - Failure on Power Input of Master M0
 - Failure on Power Input A of Satellite (number)
 - Failure on Power Input B of Satellite (number)

Severity Level 2, Critical:

The following messages appear at severity 2:

- "file" config corrupted: restoring default values

Severity Level 3, Error:

ePowerSwitch 8XM+ doesn't generate Severity Level 3.

Severity Level 4, Warning:

The following messages appear at severity 4:

- Settings have been changed through the serial connection
- Settings have been changed through the network by User "name"

Severity Level 5, Notice:

The following messages appear at severity 5:

- Master M0 has been connected
- Satellite (number) has been connected
- Sensor (number) has been connected
- System has been restarted through the serial connection
- Power Supply of Master restored
- Power Supply A of Satellite (number) restored
- Power Supply B of Satellite (number) restored
- Rule (number) : Outlet (number) of Master has been switched ON
- Rule (number) : Group (number) has been switched ON
- Rule (number) : Dry Contact Output (number) has been open

Severity Level 6, Informational:

The following messages appear at severity 6:

- System has been started
- Date & Time have been synchronized to a Network Time Server
- User "name" : Outlet (number) of Master M0 has been switched ON
- User "name" : Group (number) has been switched ON
- Dry Contact Input (number) has been opened
- Dry Contact Input (number) has been closed
- Dry Contact Output (number) has been opened
- Dry Contact Output (number) has been closed
- Session opened by user "name"

Severity Level 7, Debug:

ePowerSwitch 8XM+ doesn't generate Severity Level 7.

STATEMENT OF CONFORMITY

STATEMENT OF CONFORMITY

ePowerSwitch 8XM+

Neol S.A.S. declares that this equipment is in compliance with the Electromagnetic Compatibility Directive and the Low Voltage Directive:

Application of Council Directives:	2004/108/EEC, 2002/95/EC (RoHS)
Standards to Which Conformity declared:	EN 60950-1:2006 /A1:2010 /A11:2009 /A12:2011 EN55022 Klasse B:2010 EN55024:2010, EN50581:2012
Manufacturer's Name and Address:	Neol S.A.S. 4 Rue Nationale 67800 BISCHHEIM -FRANCE
Type of Equipment:	Power Distribution and Control Unit
Type Designation:	ePowerSwitch 8XM+ Master
Model No:	EPS 8XM+
Years of Manufacture:	2016

We, the undersigned, hereby declare that the equipment specified above conforms to the above directives.

Bischheim, 1st January 2016

Paul REYSER,



General Manager
NEOL S.A.S.