
SITEMONITOR II

User Manual – English

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English Manual

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1. About the SITEMONITOR II

1.1 General information

The SITEMONITOR is a monitoring unit for professional use. The 19" rack unit can be used for monitoring both electronic equipment and rooms and is equally well suited for industrial monitoring purposes. The SITEMONITOR has 64 digital inputs for various electrical contact detectors like smoke alarms, motion detectors, door intrusion detectors and alarm switches. Additional features allow for the programming of alarms that are composed of several inputs. The states of each alarm input are indicated by their own illuminating diodes on the front panel of the device. The electrical connections are located on the backside of the device in the form of terminal strips.

The complete configuration of the SITEMONITOR can be done within the easy to use web browser interface for setting things like network parameters and alarm functions. In addition to the LAN connection, the SITEMONITOR also has an RS-232 interface for connecting another serial device like a UPS (uninterruptible power supply). The SITEMONITOR provides RS-232 protocol support for several thousand different UPS devices. This makes the SITEMONITOR the only device of its kind on the market that can support and evaluate practically all UPS protocols with the inclusion of all of their status and measurement values. All of the measured values can be visualized using either a web browser, the Windows client included with delivery or the optional UNMS Network Management Software. SNMP protocol standard functions are also supported. Other interesting functions are also available via the LAN connection. The SITEMONITOR is capable of transmitting network messages to most operating systems.

1.2 Features



Figure 1: SITEMONITOR's front side

- 64 digital inputs (opened (NO) / closed (NC) configurable)
- 10/ 100Mbit LAN
- Supported protocols: email, HTTP, SNMP, SNTP, RFC868, Modbus Over IP, UPSMON, UNMS
- RS-232 interface for other devices, i.e. connects to almost all UPS models
- Remote configuration via web browser or UNMS Software (Optional)
- LED alarm display, LED operating status display
- Battery backed real-time clock with timeserver synchronization via internet or with UPS internal clock
- Flash memory for alarm texts
- 19"-chassis, only 1 HE

- Configuration via Web interface
- UPS interface

2. Installation

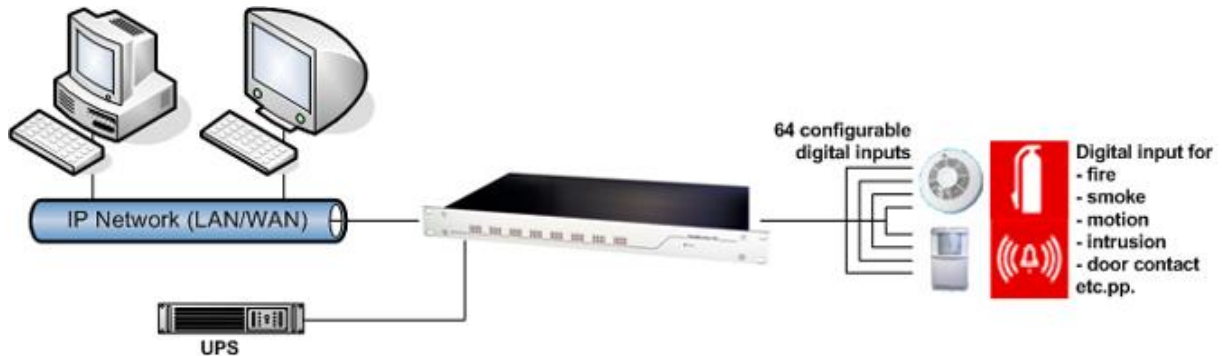


Figure 2: SITEMONITOR with UPS

The figure above shows a typical installation of the SITEMONITOR with a UPS connected. Imagine, that a numerous kind of input devices can be connected to the SITEMONITOR.

2.1 Connectors and connections

The backside of the SITEMONITOR II incorporates the following connectors as shown below:



Figure 3: SITEMONITOR's backside

- Power supply: Connect the included external power supply unit (DC, 12V).
- DIP switch 1,2: With the DIP switches it is possible to change between configuration mode and normal operating mode. How to use the DIP switches please follow the instructions in section 3 Getting started – Basic settings.
- COM 1 port: If necessary, connect the UPS with the original vendors UPS cable.
- LAN connector: Connect the SITEMONITOR with an RJ45 cable to the network.
- LINE: Port for external RAS service.
- 64 digital input sockets.

2.1.1 Digital input connectors

The 64 digital input sockets are suited in one bank.

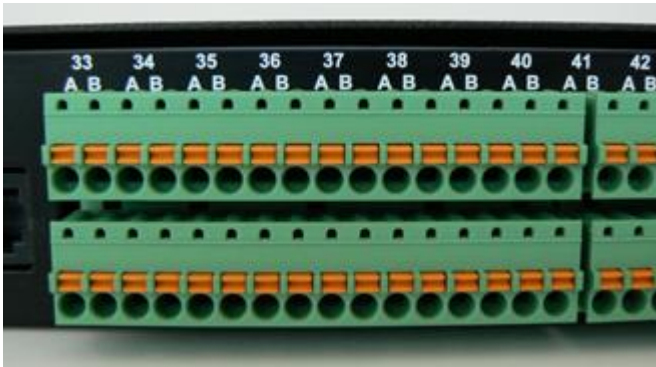


Figure 4: Input sockets

Please follow the circuit examples as shown below for the pin assignment of the digital input sockets.

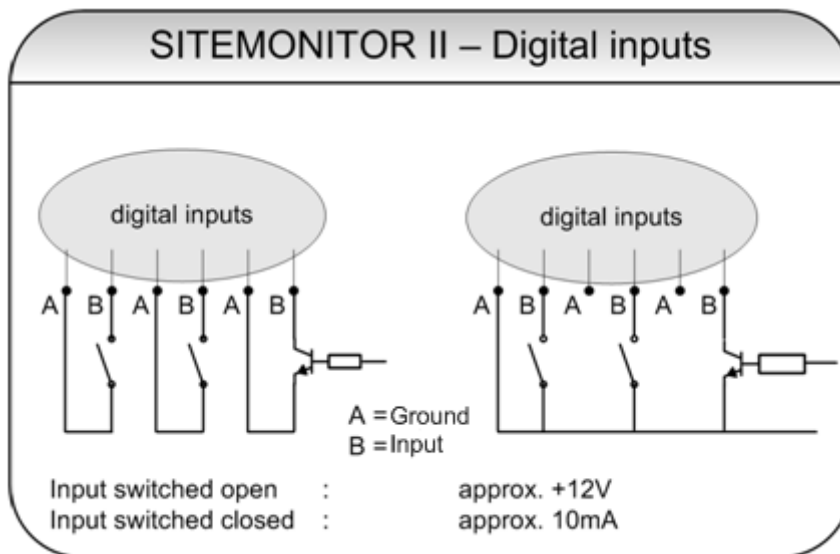


Figure 5: Pin assignment of the digital input sockets

ATTENTION! Connection sockets have changed! **Before activating the device notice the following !**

The Digital Input sockets of the SiteMonitorII from **SN:SMG04-00023** or higher have changed. The lower sockets X1 deliver the power supply of 15 VDC and the Digital Input sockets D01-D64 are on the upper ports of X2. (Fig.:Digital Inputs SiteMonitorII).

Please notice the Fig. Schematic Digital Inputs when you connect your devices

Klemmenbezeichnung:	Anschluss:
X1 / 15V +	Betriebsspannung +15VDC
X1 / -	GND -
X2/D01	Digital Input 1
X2/D02	Digital Input 2
X2/D03	Digital Input 3
X2/D04	Digital Input 4
X2/D05	Digital Input 5
X2/D06	Digital Input 6
X2/D07	Digital Input 7
X2/D08	Digital Input 8
X2/D09	Digital Input 9
X2/D10	Digital Input 10
X2/D11	Digital Input 11
X2/D12	Digital Input 12
X2/D13	Digital Input 13
X2/D14	Digital Input 14

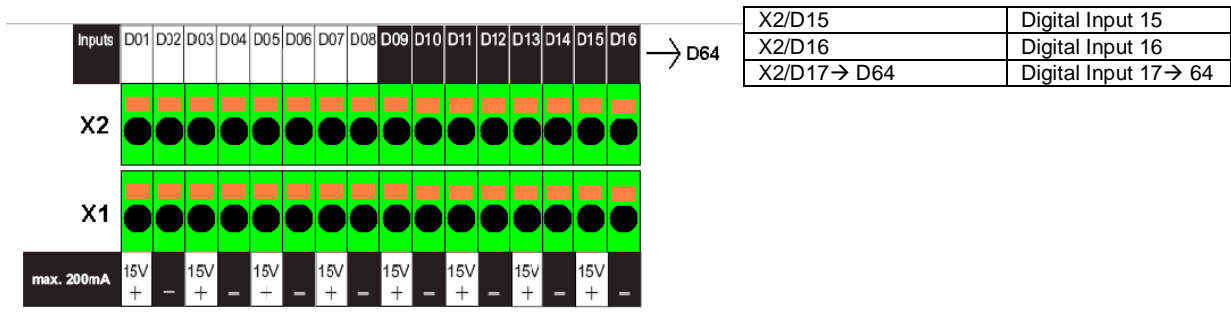


Fig.: Digital Inputs SiteMonitorII

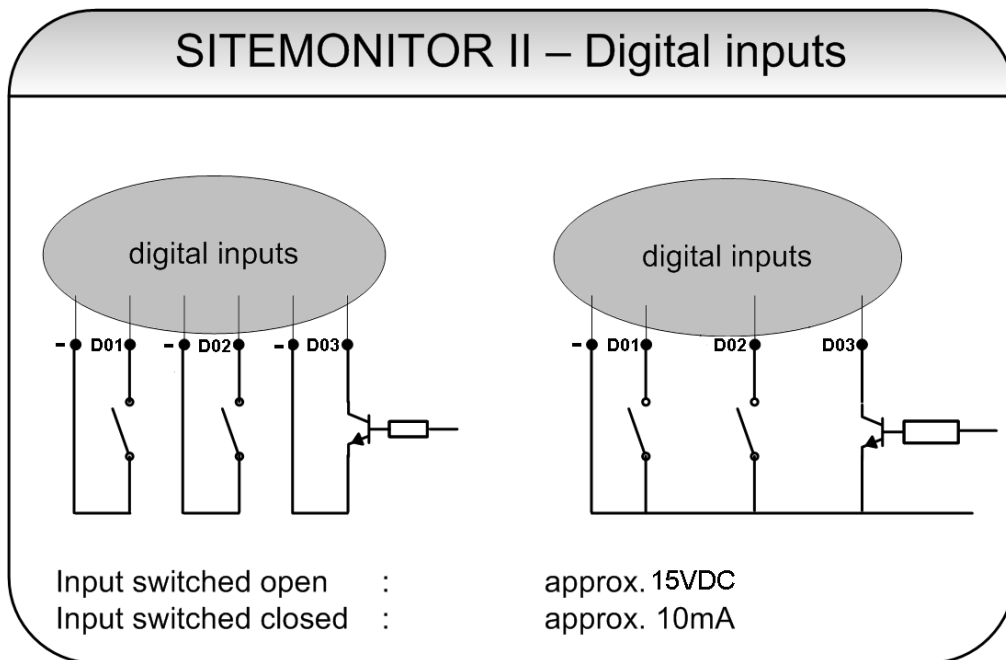


Fig.: Schematic Digital Inputs

2.2 Status LED's

The status of each Input connector is shown by the LED at the SITEMONITOR's front display whereas a green lit LED indicates, that the output/input is active and a red LED is shown in the case of a alarm (the LED is flashing while the alarm is not acknowledged).

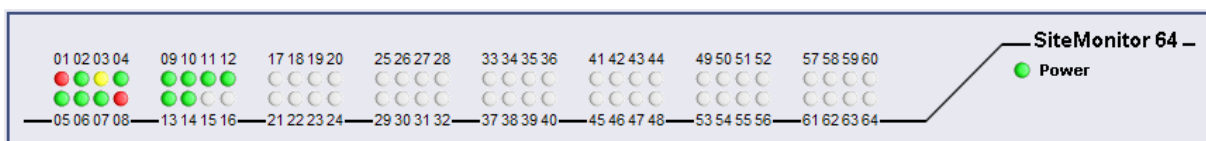


Figure 6: Status LED's at Webinterface

The actual status is also shown at the SITEMONITOR's web interface (see figure above) to monitor the devices on remote. Here, 4 status are differentiated:

LED	Status
Gray / unlit	Input / Output is not active
Green	Input / Output is active
Red	Alarm
Yellow	Alarm acknowledged and still active

3. Getting started – Basic settings

First of all the startup of the SITEMONITOR requires some basic settings by which the unit will be integrated into the network environment:

- ▶ Set DIP switch 1 and 2 to position OFF after having connected the LAN port with an RJ45 cable to the network and - where required – having connected the UPS at COM1 (with the original vendors cable). This sets the SITEMONITOR to the configuration mode and enables the default IP address 10.10.10.10. Plug in the power supply then to initiate the boot process. A running boot procedure is indicated with green flashing of the power LED at the SITEMONITOR's front display.
- ▶ When the SITEMONITOR has finished its boot procedure (indicated with permanent green lightening of the power LED) a network connection can be built up. To establish a connection the network must route the SITEMONITOR's answers under 10.10.10.10 to your local host. Usually you have to set a temporary route for this: Open the command prompt and type "route print" to see the actual routes. Use the command "route add 10.10.10.10 <your local IP-address>" to extend the actual routing table. Ping the adapter on IP-address 10.10.10.10 and you should receive the answers.

```

C:\>route print
-----
Schnittstellenliste
0x1 ..... MS TCP Loopback interface
0x2 ...00 17 a4 41 39 7f ..... Broadcom NetXtreme Gigabit Ethernet - Paketplaner-Miniport
-----
Aktive Routen:
   Netzwerkziel   Netzwerkmaske   Gateway   Schnittstelle   Anzahl
-----
   10.10.10.10   255.255.255.255   192.168.202.51   192.168.202.51   1
   127.0.0.0     255.0.0.0       127.0.0.1       127.0.0.1       1
   192.168.202.0 255.255.255.0   192.168.202.51   192.168.202.51   20
   192.168.202.51 255.255.255.255   127.0.0.1       127.0.0.1       20
   192.168.202.255 255.255.255.255   192.168.202.51   192.168.202.51   20
   224.0.0.0     240.0.0.0       192.168.202.51   192.168.202.51   20
   255.255.255.255 255.255.255.255   192.168.202.51   192.168.202.51   1
Standardgateway: 192.168.202.1
-----
Ständige Routen:
   Netzwerkadresse   Netzmaske   Gatewayadresse   Anzahl
-----
   10.10.10.10   255.255.255.255   192.168.202.51   1
C:\>

```

Figure 7: Route command and routing table

- ▶ Connect your Webbrowser (MS-Internet Explorer and Mozilla are supported) to the address <http://10.10.10.10> to reach the SITEMONITOR's Webinterface. First of all the HTTP interface requires a logon whereas you use the username "admin" and the default password "cs121-snm".

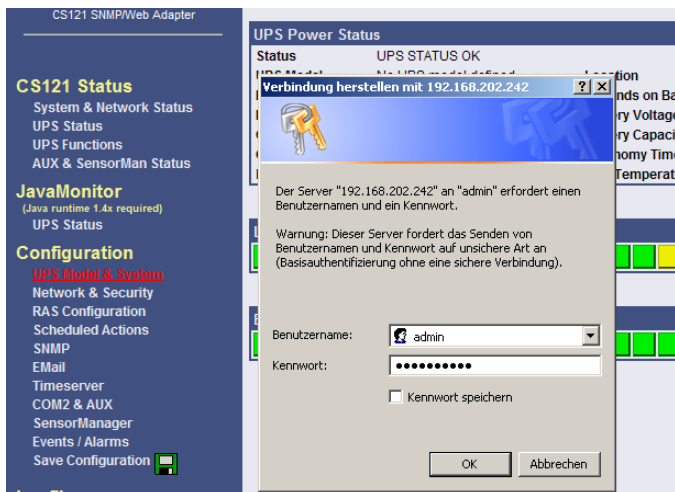


Figure 8: HTTP - logon

► Call the menu “Network & Security”. Make the settings for “Local Address”, “Gateway Address” and “Subnet Mask” (where required also for “DNS-Server”). Apply your settings with the button on the right bottom side of the menu.

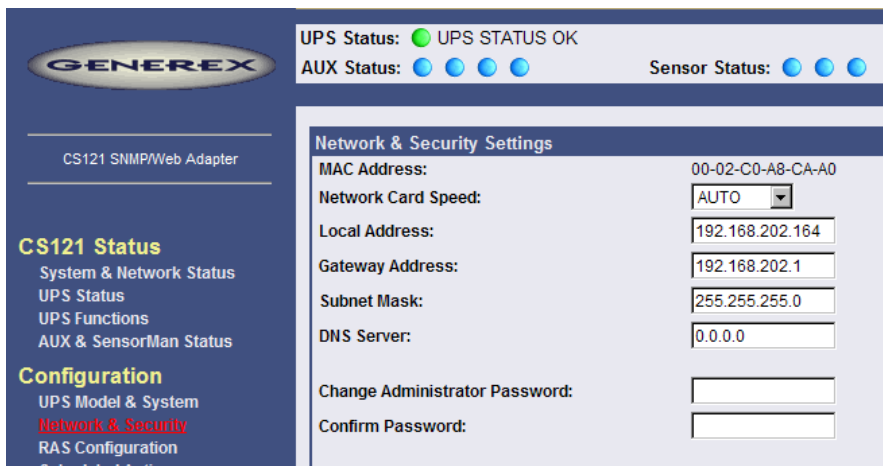


Figure 9: HTTP- Basic network settings

- If a UPS is connected at the SITEMONITOR’s serial COM1 port it is necessary to set some UPS parameters. Therefore call the menu “UPS-Model & System” and select from the drop-down menu the connected UPS model. Apply your settings with the button on the right bottom side of the menu.
- Call the menu “Save Configuration” and choose the option of the same name.
- Set DIP-Switch 1 to position ON, whereas DIP-Switch 2 stays in position OFF. Remove and insert the power supply from the Sitemanager to initiate the reboot process. See the power LED’s to verify the reboot process.
- Reconnect the Webbrowser with the device using the configured IP address. (http://<the adapter’s IP-address>”). If you don’t get an answer, please observe, that the routing table contains a route for the SITEMONITOR’s IP address.

The basic settings are now completed and the SITEMONITOR is integrated into the network environment.

4. Configuration of the input connectors

4.1 Connected devices



Figure 10: HTTP – COM2 settings to SiteMonitor 2

Generally, the SITEMONITOR's COM2 port is set to mode "SiteMonitor 2". This enables the configuration page "Sitemonitor II" in the configuration menu.

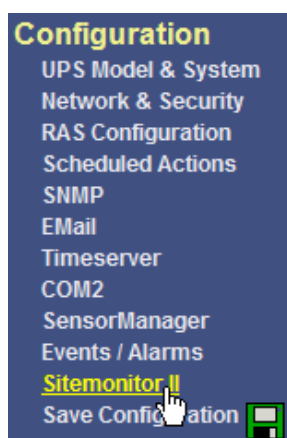


Figure 11: HTTP menu with SITEMONITOR II configuration

Use this menu to configure the devices at the input sockets. The 64 digital inputs can be configured within the following section.

SiteMonitor 2 Digital Inputs									
Port	Name	NC Contact	Active	Hold	Port	Name	NC Contact	Active	Hold
1	Door contact	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	33	Digital Input	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	Smoke sensor	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	34	Digital Input	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	Air condition	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	35	Digital Input	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4	UPS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	36	Digital Input	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5	Motion detector	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	37	Digital Input	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	Water sensor	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	38	Digital Input	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7	Generator	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	39	Digital Input	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8	Control unit	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	40	Digital Input	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
9	Switch 1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	41	Digital Input	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
10	Switch 2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	42	Digital Input	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
11	Switch 3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	43	Digital Input	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
12	Door contact 1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	44	Digital Input	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
13	Door contact 2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	45	Digital Input	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
14	Digital Input	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	46	Digital Input	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Figure 12: Configuration – Digital Inputs

Name the connected devices and set whether the contact is closed or not in its normal operating mode (Field NC Contact). Enable “Active” for all connected devices. (Only active devices will be evaluated)

Enable the parameter “Hold”, if an occurred Alarm ought to be kept until the alarm is acknowledged and not ought to be reset, when the contact moves in normal position. A digital input marked with “Hold” causes, that for example a motion detector, which gives the alarm contact only for a short period of time, will be indicated and treated as alarm even if the contact has moved in its normal position again. If the Alarm occurred once it is active and has to be acknowledged to set it back to normal mode.



Note: If you do not want to use a name for the Digital Inputs, please set the following into the single name area:

4.2 Alarm matrix

The following “Alarm Matrix” gives you numerous possibilities to configure dependencies between different alarm states. This makes it possible to process an alarm szenario in dependency of the state of several input sensors. (For example: An alarm szenario is to be released only if two contacts indicate an alarm or if the air condition is not active.)

Alarm Matrix											
Inverted		Logic									
		01-04	09-12	17-20	25-28	33-36	41-44	49-52	57-60		
Marker 1	<input type="checkbox"/> Or	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		05-08	13-16	21-24	29-32	37-40	45-48	53-56	61-64		
		01-04	09-12	17-20	25-28	33-36	41-44	49-52	57-60		
Marker 2	<input type="checkbox"/> And	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		05-08	13-16	21-24	29-32	37-40	45-48	53-56	61-64		
		01-04	09-12	17-20	25-28	33-36	41-44	49-52	57-60		
Marker 3	<input type="checkbox"/> And	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		05-08	13-16	21-24	29-32	37-40	45-48	53-56	61-64		
		01-04	09-12	17-20	25-28	33-36	41-44	49-52	57-60		
Marker 4	<input type="checkbox"/> And	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		05-08	13-16	21-24	29-32	37-40	45-48	53-56	61-64		
		01-04	09-12	17-20	25-28	33-36	41-44	49-52	57-60		
Marker 5	<input type="checkbox"/> And	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		05-08	13-16	21-24	29-32	37-40	45-48	53-56	61-64		
		01-04	09-12	17-20	25-28	33-36	41-44	49-52	57-60		
Marker 6	<input type="checkbox"/> And	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		05-08	13-16	21-24	29-32	37-40	45-48	53-56	61-64		
		01-04	09-12	17-20	25-28	33-36	41-44	49-52	57-60		
Marker 7	<input type="checkbox"/> And	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		05-08	13-16	21-24	29-32	37-40	45-48	53-56	61-64		
		01-04	09-12	17-20	25-28	33-36	41-44	49-52	57-60		
Marker 8	<input type="checkbox"/> And	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		05-08	13-16	21-24	29-32	37-40	45-48	53-56	61-64		
		01-04	09-12	17-20	25-28	33-36	41-44	49-52	57-60		

Figure 13: Alarm matrix – Marker 1-8 configuration

In the figure above the alarm matrix is shown with its 8 markers to be set or unset. Each marker thereby is a new state on which specific alarm szenarios can be released.

For example: In the figure above is configured that the Marker1 will be set, when at one of the input 2, 5, 9, 10 or 15 an alarm occurs. (Enabling the field “Marker Inverted” causes that Marker1 will be unset in case of an alarm at one of the inputs) Furthermore marker 2 will be set, when at the input 2, 5, 7, 11, 13 and 14 an alarm state occurs at the same time. (Means that an alarm at just one input is not sufficient for setting marker 2) Accordingly it is possible to set (or unset) each marker in dependency of different input states.

After having defined the conditions when markers are to be set resp. unset, you can specify the actions to be executed when an marker will be set/unset. Therefor you can handle each marker through the event configuration, described later on in section 5 Event . This is possible because each marker has its own event “Alarm Marker x”, which can be configured through the event configuration.

Furthermore the matrix configuration gives you the possibility to combine and set conditions between the Markers. Therefor you have an additional matrix, figured on below. In the example is configured that Output 3 is to be switched, when Marker 1 or Marker 2 is set (or the opposite way around in case “Output Inverted” is enabled).

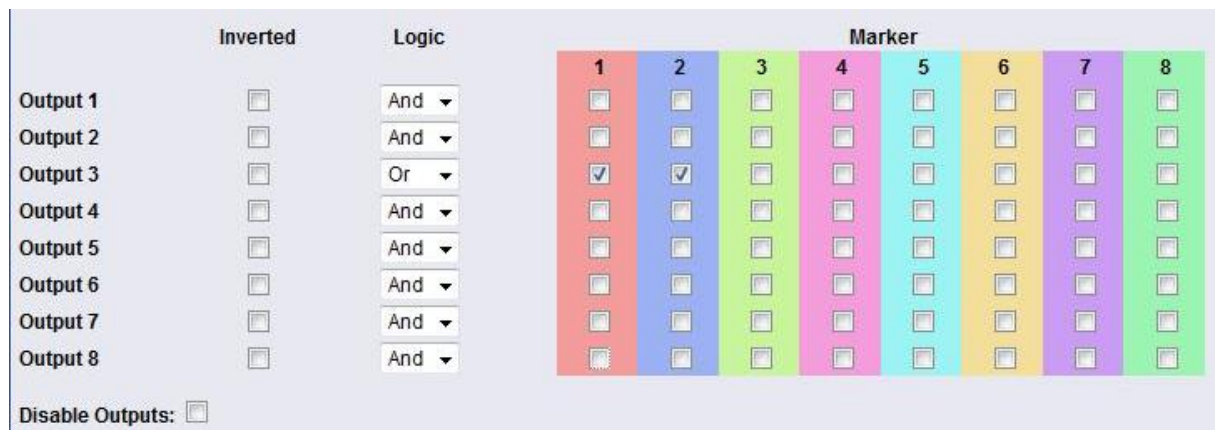


Figure 14: Alarm matrix – Output 1 - 8 configuration

4.3 Status display

The SITEMONITOR II incorporates different pages for monitoring. Choose in the menu “Network & Security” which status page is the HTTP default page and will be displayed on startup of every HTTP connection.

4.3.1 Input status

Monitor the state of the connected devices through the menu “Sitemonitor II Status” (default setting for HTTP default page).

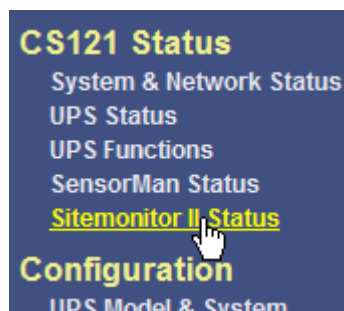


Figure 15: Menu for status display

The status display gives you an overview of the actual input status. Additionally, you have the possibility to acknowledge alarms (Button “Ack”) as shown in the figure below.

Digital Input Alarms									
1	ACK	Door contact	17	Digital Input	33	Digital Input	49	Digital Input	
2	ACK	Smoke sensor	18	Digital Input	34	Digital Input	50	Digital Input	
3	ACK	Air condition	19	Digital Input	35	Digital Input	51	Digital Input	
4	ACK	UPS 1	20	Digital Input	36	Digital Input	52	Digital Input	
5	ACK	UPS 2	21	Digital Input	37	Digital Input	53	Digital Input	
6	ACK	Water sensor	22	Digital Input	38	Digital Input	54	Digital Input	
7	ACK	Generator	23	Digital Input	39	Digital Input	55	Digital Input	
8	ACK	Control unit	24	Digital Input	40	Digital Input	56	Digital Input	
9	ACK	Switch 1	25	Digital Input	41	Digital Input	57	Digital Input	
10	ACK	Switch 2	26	Digital Input	42	Digital Input	58	Digital Input	
11	ACK	Switch 3	27	Digital Input	43	Digital Input	59	Digital Input	
12	ACK	Door contact 1	28	Digital Input	44	Digital Input	60	Digital Input	
13	ACK	Door contact 2	29	Digital Input	45	Digital Input	61	Digital Input	
14	ACK	Digital Input	30	Digital Input	46	Digital Input	62	Digital Input	
15		Digital Input	31	Digital Input	47	Digital Input	63	Digital Input	
16		Digital Input	32	Digital Input	48	Digital Input	64	Digital Input	

Figure 16: Status display overview

5. Event Handling, UPS functionalities

The Event/Alarm configuration is based on a combination of events and actions (resp. Jobs). At the Sitemonitor there are various events defined, e.g. events concerning the attached devices like “Alarm Input 1”, “Alarm Digital Input 1” etc. and also events concerning a connected UPS like “Powerfail”, “UPS Battery bad”, “Battery low” etc.

The Sitemonitor allows you to release one or more actions on each event. An action can be e.g. to write a logfile entry in the alarm logfile (as default all events do perform an logfile event), to send an eMail or to perform an RCCMD-Command (e.g. shutdown signals to several RCCMD Clients).

► To configure events and actions open the menu “Events / Alarms”. The menu “Event Configuration” shows you an overview about the events and the number of configured actions.

Event Configuration									
Event Overview									
Event	Log	Email	RCCMD Shutdown	RCCMD Message	RCCMD Execute	UPS Shutdown	AUX	Dialer	RCCMD Trap
1 Powerfail			1	1	1	0	0	0	1
2 Powerfail	4 Jobs								
3 System s	1. RCCMD Msg	192.168.202.147							
4 UPSMAN	2. RCCMD SD	192.168.202.147							
5 UPS con	3. RCCMD Exe	192.168.202.147							
	4. RCCMD Trap	Powerfail on #SERVER UPS can power system for #AUTONOMTIME min.							

Figure 17: HTTP - Event Configuration with tool tip

► Choose the event you wish to configure with the event editor.

Event Editor						
Event: 'Powerfail'						
Event Jobs for 'Powerfail'	Job Type	When	Parameter 1	Parameter 2	Parameter 3	
1 Edit Del Test Log	P100	Powerfail				
2 Edit Del Test Trap	RCCMD	0	Powerfail on #MODEL Autonomietime			
			#AUTONOMTIME min.			

Figure 18: HTTP - Event Editor

The Event Editor allows you to edit, delete and test existing events, as well as to add a new event job. Just click on the desired action to enter the Job Editor, who lets you make the configuration.

5.1.1 Events ...

Please call the menu “Events / Alarms” at the Webbrowser to open the main configuration site, whereon all configurable events are listed.

In the Sitemonitor’s menu “Event overview” you see on top a couple of events concerning the state of an connected UPS (usually numbered from 1). Which events are actual available depends on connected UPS model. In the following, we introduce the main and important events which should be handled in general, if a UPS is connected to the Sitemonitor.

• Powerfail

The event “Powerfail” will be released when the UPS has lost the power supply. This event is usually used to proceed operations like backup-strategies, batch-files to be executed on client stations etc. pp. You can configure such jobs with the “Remaining time”-parameter to ensure the actions will be executed completely.

• System shutdown

The event “system shutdown” will be released, if the configured “System Shutdown Time” (in the menu “UPS model and system”) is reached. This means, there are yet the configured minutes left until the battery’s capacity is expected to be finished (as calculated by the SITEMONITORs adapter).

This event should only be used to proceed all operations concerning your forced shutdown szenarios. Further operations are usually configured on the event “Powerfail”.



Note: This EVENT is the final task the SITEMONITOR can initiate before the UPS switches off! DO NOT use this event for triggering shutdowns via RCCMD etc. because the remaining time in this status is not secure. We strongly recommend to use the event “Powerfail” and configure the RCCMD shutdown calls with a UPS “remaining time”, this is the best way to send RCCMD shutdowns to several IP-addresses in a certain logic or sequence!

• Battery low

The event “Battery low” will be released from the UPS when the battery charge has reached a critical state.

• UPSMAN started

The event “UPSMAN started” is periodically released in normal operating mode. You can use this event to configure jobs, which should be executed as long as the SITEMONITOR is working in normal mode.



Note: Same UPS models allows you to configure the thresholds for releasing UPS specific events individual. The SITEMONITOR also supports these features if the UPS includes this possibility.

• Continuous, periodic events:

To define an event job which will be executed continuous, e.g. daily, create a job on the event „UPSMAN started“, as in the following figure:

'UPSMAN started' Job 2

Function: Send an EMail

Receiver: someone@somewhere.com

Text: CS121 at 192.168.10.123 is alive!

Use text as subject: No

When:

- Immediately, once
- Always
- Every 86400 seconds
- After 86400 seconds
- After 86400 seconds & repeat
- After 86400 seconds on battery
- At 86400 seconds remaining time

Apply Cancel

Figure 19: HTTP - Job Editor: Continuous event job

For example the configuration as shown above causes, that each day (is equivalent to 86400 seconds) an email to “someone@somewhere.com” will be sent, until the Sitemonitor is in normal operating mode.

Furthermore each connected device at the input sockets has its own event which allows to release specific actions in dependency of the status of the device. Therefore the following events are supported:

- **Alarm Input 1-64:** Will be released, if the contact state indicates an alarm. (Opposite of NC contact)

5.1.2 Email Job

'Powerfail' Job 3

Function: Send an EMail

Receiver: someone@somewhere.com

Text: alarm #MODEL - #AUTONOMTIME min.left

Use text as subject: Yes

When:

- Immediately, once
- Always
- Every 0 seconds
- After 0 seconds
- After 0 seconds & repeat
- After 0 seconds on battery
- At 0 seconds remaining time

Apply Cancel

Figure 20: HTTP - Job Editor: Email-Job

To configure an Email job follow the entries in the figure above.



Note: It is condition before you configure an Email job that you have made the Email settings in the menu “Email”. Please observe, that the entries are valid, before testing.

- ▶ Apply your settings and test the Email-job in the “Event Editor” to ensure Email will be sent.

5.1.3 Notification via SMS

From firmware version 4.17.x or higher is a new function available, which offers a notification via SMS. Just use a simple 1:1 cable for the connection of the SiteManager II/v3 and the GSM modem.

'UPSMAN started' Job 1

Function: Send SMS with GSM modem

Phone Number: Write to Logfile

Message: Send an EMail
Send RCCMD Shutdown to remote client
Send RCCMD Message to remote client
Send RCCMD Command to remote client
Shutdown UPS
Switch AUX/SensorMan/UPS Output
Send RCCMD Trap
Send Wake-On-LAN Magic Packet
Send RAS Notification
Send SMS with GSM modem

Figure 21: HTTP - Job Editor: Send SMS with GSM modem

Set the telephone number of the receiver and the text into the accordant areas.

LED Status Display

Operating Status:	LED Signaling:
SIM card not present	Slowly red flashing
SIM card active	Fast red flashing



Figure 22: Siemens GSM TMA T35i modem

Into the menu “System & Network Status” you can see the signal level of the modem, to adjust your antenna optimal. Green means a good signal is present.

System Info & Network Status		
System Information		
CS121 Hardware	CS131	Location
CS121 Firmware	CS121-SNMP v 4.17.12.090831	System Name
	HyNetOS Rel. 2.4.1.32(pdu) - Aug 27, 2009 Firmware Server Rel. 2.4.1.15(pdu) - Aug 08, 2009 DRIVER GenereX CS123 Rel. 2.4.1.70(pdu) - Aug 29, 2009 Loader: BCOTCS133, ROM-Version: 2.3.151(pdu) - Jun 05, 2009 UPS driver: 714	System Contact
UPS Manufacturer	GenereX	Attached Devices
UPS Model	smart offline UPS	System Time
		Uptime
		Total Uptime
		GSM Signal Quality
Network Status		
MAC Address	00-03-05-0E-07-19	Telnet Server
Network Speed	AUTO	HTTP Server
IP Address	192.168.222.188	Upsmon Server
Subnet Mask	255.255.255.0	Use RCCMD2 Traps
Default Gateway	192.168.222.100	SNMP Server
DNS Server	192.168.222.100	Use SNMP Coldboot Trap
E-Mail Server	not configured	Use SNMP Authentication Trap
Time Server	129.6.15.29	Modbus Server

Figure 23: HTTP – „System & Network Status“

5.1.4 RCCMD - Perform shutdown signals to network computers

RCCMD (Remote Console Command) is the world’s most successful shutdown client for heterogeneous networks and is the most secure way to establish a UPS multiple server shutdown sequence today. RCCMD clients are listening to an RCCMD server which is usually an UPSMAN software, CS121 or any third-party UPS manager which has a license to use RCCMD. An RCCMD server is found inside any CS121 and is triggering RCCMD clients in case of alarms. Therefore RCCMD requires such listeners on each client-computer you wish to forward RCCMD signals. For installation of RCCMD at client-side please see the section in chapter “Add-on software”.



Note: RCCMD clients are optional and not freeware. Most SITEMONITORs are equipped today with a single RCCMD standard license, some UPS makers add more licenses, other do not deliver any license at all with a CS121. Contact your UPS maker and ask for the license regulations for RCCMD in conjunction with your SITEMONITOR.

License regulations:

Please note that in order to use these functions legally, the corresponding RCCMD client program is installed and started from the UPS-Management Software CD. The RCCMD license code can only be

used once per installation. If more computers need to be added to the shutdown process, additional RCCMD client licenses are required.

To send shutdown-signals to computers in case of a powerfail event you have to install and configure the RCCMD client at the computers you want to shutdown and make some configurations at the adapter's event settings.



Note: All network components, such as routers, hubs etc. need to be full UPS-supported, as it is otherwise not possible to reach all clients during the network shutdown.

• **Installation of the RCCMD client:** You find a setup procedure for RCCMD on the UPS Management Software CD or downloadable from www.generex.de.

The RCCMD Setup contains a wizard, which guides you through the installation. At the first window you have to enter the IP address of the SITEMONITOR, from which the client receives the RCCMD shutdown-signal. Confirm the following pre-settings and mind the shutdown file at the ultimate window. Press „Configure“ to edit the actual shutdown sequence at the client. (Alternatively you can also edit the batchfile to add or change the actions to be executed.) Finally press „Install“ to complete the configuration and to start the RCCMD service.



Note: Each RCCMD installation needs its own licence code. Usually the SITEMONITOR package contains at least one licence (depends on the model). Contact your UPS dealer to obtain further licence codes.

• **Configuration of the SITEMONITOR's event settings:** Call the menu “Events & Alarms” at the adapter's HTTP-configuration, click on the event “Powerfail” and press the button “Add new job” to open the Job Editor.

There, choose as function from the drop-down menu the option “Send RCCMD Shutdown to remote client” and enter the IP-address of the client. (the listener port is usually 6003) At the right side you can specify when the shutdown-signal is to be released, e.g. „do after 300 seconds“.



Note: For security reasons we recommend to make the same RCCMD shutdown entries at „Powerfail“ for the Event “Battery low” - but here without any delays to avoid that the server crashes because of low battery alarm!

Appendix

A. SITEMONITOR II – technical data

Power Supply:	15VDC (Input range 12-15VDC) stabilized, 1A (then about 500mA are left for supply of sensors)
Max. permitted current per output:	4 A (with ohmic load, cos phi 1)
Dimensions:	430 mm x 156 mm x 44 mm (BxTxH)
with mounting brackets:	19", 1 HE
Operating temperature:	0 - 40°C
Rel. air humidity:	0 - 95%, not dewed
Degree of protection:	IP 20
Cable diameters for outputs	0,2mm ² - 2,5mm ²

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