GENEREX

SITEMANAGER 7 HW161

Professional Facility Management

The SITEMANAGER 7 is the ultimate all-in-one solution for central building management.

✓ 8 analogue sensor ports

Connect any analogue sensors and link them logically with each other via an intelligent matrix.

✓ 8 digital outputs

Inform higher and lower-level management systems about important system events via digital outputs, directly control emergency and assistance systems on site as an independent and intelligent isolated stand-alone system.

✓ 8 digital inputs

Realize further reaction behaviour and logical circuit chains via digital feedback loops or use the SITEMANAGER 7 directly as information uplink into any network.

✓ 8 Switching relays for power circuits

Use powerful power circuits to supply individual devices directly with power or realize transfer circuits - the SITEMANAGER 7 offers switching relays with up to 2 amps of power.

✓ Fully equipped and featured modern BACS WEBMANAGER for 512 batteries

1.5 million BACS installations in 2021 can't be wrong: BACS is the best and one of the most popular battery management systems on the market. The SITEMANAGER 7 provides a full-fledged and featured BACS BUS controller for a dynamic upgrade and changeover of your emergency power system "just in time"!

✓ LED status with non-volatile memory guarantee status feedback

The front LEDs are controlled via an intelligent non-volatile technology, which means that the last status message is available even after an absolute power failure. Technicians can therefore detect causes of errors on site directly at a glance when starting the SITEMANAGER 7 with an independent power source.

GENEREX ◆

SITEMANAGER 7 HW161

Professional Facility Management

✓ **Modern and flexible interface for comfort and safety**

Access the SITEMANAGER 7 directly via the modern and intuitive web interface to manage all functions. For developers and programmers, the SITEMANAGER 7 offers a powerful additional interface with the GENEREX API, which can be used to program the device directly or script-controlled:

Realize script solutions adapted to the infrastructure, with which time-controlled import basic configurations, read out and save log files or create time-controlled, backups, automatically download and import new firmware and much more.

✓ **Universally applicable - independent of any infrastructure**

The SITEMANAGER 7 not only supports more than 1400 UPS models from over 120 manufacturers:

Manage all aspects of a modern building infrastructure with the all-in-one solution, from UPS to batteries to a complex building management system. SITEMANAGER 7 brings together sensors, actuators, digital inputs and outputs and power circuits via an intelligent matrix and enables highly complex management including multi-layered escalation levels

✓ **1000 Mbit / s for using with native Gigabit-network infrastructures**

To ensure the best possible system compatibility and speed in data transmission, GENEREX will equip the globally popular SITEMANAGER 7 with a more modern Gigabit network interface in the future

✓ **Integrated WiFi**

Advanced network options

With its integrated WLAN interface, SITEMANAGER 7 offers a flexible and user-friendly solution for integration into existing WLAN networks. The stable and secure WLAN connection enables independent installation, even in environments without a wired LAN infrastructure. The simple configuration rounds off the overall package.

✓ **Intuitive full automation for time-critical applications in UPS and IT management**

The SITEMANAGER 7 offers a state-of-the-art interface inspired by established PLC control systems, but and has been enhanced with many features. Benefit from the possibilities that a full integration brings as a management system for script solutions:

Schedule recurring tasks such as UPS and battery tests with the Task Scheduler or use the IT management functions to harmonize general maintenance tasks such as backups and reboots within the EDP with other system tests in a precisely timed manner.

✓ **Multi server shutdown, emergency procedures and automated system startups and more.**

For the system shutdown

In conjunction with the globally popular RCCMD ("Remote Control and Command") software, a SITEMANAGER 7 can initiate complex emergency procedures to reliably protect the IT infrastructure from damage, data loss and total failure. Initiate fully automated and scripted preparatory measures for the shutdown of a data centre, create backups, shut down sensitive program parts on servers, initiate a server migration to alternative locations and much more.

RCCMD supports more than 40 operating systems.

For the system restart

As soon as the SITEMANAGER 7 is supplied with power again, it can combine system events and scheduled jobs to restart the entire network fully automatically:

- Scheduled / Timed: Define clear time windows for actions like outlets for power, WOL signals, initial startup scripts, and much more.
- Event-driven: In addition to the UPS, also integrate environmental and assistance systems via contacts and feedback contacts to start a even most complex network structures with mutual dependencies fully automatically

For your infrastructure assistance system

The SITEMANAGER 7 is the only device on the market that offers a comprehensive all-in-one solution for highly complex building management. Use digital outputs to trigger other devices and systems as needed in time and create feedback or notification loops via digital inputs. Highly optimized switching relays for power switching allow multi-layered management of the infrastructure, considering interdependencies, sensor readings and timing switching procedures

✓ **Time accurate event and measurement logs beyond the power outage.**

With the non-volatile stored front LED status display, the SITEMANAGER 7 provides a quick visual check for valuable information about the last system statuses after an incident, even in case of a complete system shutdown.

Furthermore, SITEMANAGER 7 internally logs all available measured values and alarm events in intuitively understandable log files. An integrated NTP client on the ensures precise time synchronization of all collected data - and thus enables meaningful error analysis, as measured values and events can be directly matched

✓ **Multi-layered communication system to report pending events**

The SITEMANAGER 7 can do more than collect information, process it and provide it in its own non-volatile memory. Many possibilities are available to communicate the collected data directly to superordinate as well as subordinate systems:

Integrated clear and light weight offline monitoring

The SITEMANAGER 7 provides everything you expect from an intelligent offline monitoring and management for stand-alone scenarios.

Depending on the configuration level, the monitoring screens clearly and intuitively show the measured values of all connected sensors, switching states of the inputs, outputs and power circuits, UPS measured data, battery states, charging capacities, running times, etc.

E-Mail/SMS - notification

If desired, the SITEMANAGER 7 can send notifications and logs by e-mail for every pending or job-driven switched system event. The responsible personnel is informed as quickly as possible and can react immediately to an emergency. The SITEMANAGER 7 is compatible with all common mail systems such as MS Exchange/Outlook Office 365, Lotus, etc. An optional GSM modem additionally offers an independent way to inform technical personnel immediately about the system status via SMS in case of problems.

GENEREX

◆

SITEMANAGER 7 HW161

Email Traps for UNMS Remote Monitoring

With "Email Traps", all models of the CS141 product family offer to transmit data packages with current status information and measured values of a UPS via email to a UNMS server in parallel to the internal monitoring. The Email Traps thus allow a service partner to realize external remote monitoring of the UPS and battery systems without direct access to the customer network as a special service.

MODBUS included

Since MODBUS over IP is included as standard for all CS141-based devices, the SITEMANAGER 7 can do this job, too. enabling connection to PLC devices, e.g. from Schneider or other MODBUS-based PLC systems.

SNMP

The SITEMANAGER 7 basically follows the RFC1628 standard and can therefore be queried by any management system that supports RFC1628. Additionally, a SITEMANAGER 7 MIB file is available for download to max out the SNMP function.

PROFIBUS/LONBUS and more…

Further optionally available fieldbus converters can be connected to provide a compatible hardware platform

Native support of the Industrial standard „BACnet "

The SITEMANAGER 7 supports BACnet over IP directly and without any help of a corresponding BACnet converter and can thus be directly integrated transparently into any existing BACnet infrastructure.

Customers with older firmware versions will automatically get access to this new feature after updating to the latest firmware version.

Remote Syslog

If required, the SITEMANAGER 7 can send extracts of the event log as a so-called syslog file to corresponding servers to enable fully automatic evaluation and error analysis by infrastructure management systems.

RCCMD included

✓ Secure your network with RCCMD, the world's most popular solution for automating critical server operations. Every SITEMANAGER 7 has an integrated RCCMD server and can thus transparently shut down almost any highly critical IT infrastructure in a fully automatic and structured manner in the event of a power failure.

✓ **Network security / Cybersecurity enhanced**

The SITEMANAGER 7 supports all common system-relevant network services and fits seamlessly into any existing IT infrastructure:

IPv4	SFTP	Modbus over IP	BACnet over IP
IPv6	DNS	RCCMD	SNMP v2/3
DHCP	Remote Syslog	UPSTCP (UNMS)	http und https
sFTP	SNMP	SMTP	RADIUS
RADIUS 802.1x / EAP	(Optional) SMS notification: 3G/4G/5G	Digital Contacts	

Security First

- Made in Germany and Made in USA

  The most powerful All-In-One UPS Web and SNMP Management system on the market! The software architecture behind the CS141 HW161 WEBMANAGER has been specifically designed to meet the high data protection requirements of Germany and America.

- Replaceable certificates

The network services implemented according to industry standards allow the implementation of own certificates - invalid and expired certificates can be rejected automatically

- Tamper protection

For particularly sensitive application scenarios, the internal web server can also be completely deactivated after configuration. SITEMANAGER 7 also does not support ROOT access, which makes manipulation almost impossible.

- Self-Starting in case of problems

The internal "watch dog" regularly checks whether all services are working as desired. Should SITEMANAGER 7 stumble due to unexpected system events, it restarts itself without further ado and is fully available again after a maximum of 120 seconds.

- Network Security and screening tools inclusive

As a fully qualified IT management system, SITEMANAGER 7 offers a special function to help administrators systematically search for security leaks within the network segment.

- Digitally signed firmware updates

GENEREX offers product improvements with its regular and digitally signed firmware updates. In addition to the general bug fixes and product enhancements, you can also benefit from the new functions and features that are provided free of charge with the firmware.

- R801X / EAP

Port sharing access offers the possibility to keep foreign devices out of a network from the beginning. The CS141 supports 100% port-sharing level network access and thus fits transparently into an existing network protection concept with automatic port sharing.

- Radius Server Support

SITEMANAGER 7 supports connection to networks via Radius servers to make access and capabilities even easier, more efficient and more transparent according to local security policies.

GENEREX
◆

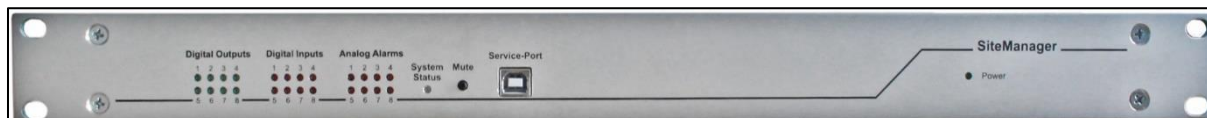# SITEMANAGER 7 HW161

Professional Facility Management

✓ **BACS on Board**

Modern infrastructures depend on emergency power supply. Many think exclusively of servers and computer systems, but in fact switches, transfer circuits, emergency lighting, sprinkler systems and other systems are also affected. It systems that rely on 100% system performance for emergency power. Therefore, for a professional overall system, BACS, the worldwide known battery management system, is included, making SITEMANAGER 7 the first choice for a holistic infrastructure and IT management system:

The third generation BACS "Battery Analysis & Care System" developed by GENEREX is the most innovative product on the market, which includes a battery monitoring and management system that can be integrated into the network. It cyclically checks the internal resistance, temperature and voltage of each individual accumulator and corrects voltage differences of individual cells.

String 1						**String 2**					
No.	Volt [V]	Temp. [°C]	Ri [mΩ]	Equalize	Status	No.	Volt [V]	Temp. [°C]	Ri [mΩ]	Equalize	Status
1	13.26	24.0	24.05		🟢	33	13.27	22.5	41.63		🟢
2	13.40	23.3	25.04		🟢	34	13.53	23.0	44.02		🟠
3	13.27	23.1	23.55		🟢	35	13.58	22.0	25.53		🟢
4	13.33	23.1	25.04		🟢	36	13.56	21.5	26.84		🟢
5	13.25	22.8	22.23		🟢	37	13.55	22.0	34.89		🟢
6	13.29	22.7	23.59		🟢	38	13.55	22.0	29.77		🟢
7	13.33	22.8	24.51		🟢	39	13.56	22.2	31.80		🟢
8	13.55	22.5	25.12		🟢	40	13.57	22.2	30.64		🟢
9	13.83	21.9	25.46		🟢	41	13.55	21.3	28.54		🟢
10	13.92	22.5	22.77		🟢	42	13.56	22.0	32.01		🟢
11	13.92	23.5	22.92		🟢	43	13.56	21.0	29.26		🟢
12	13.90	23.0	25.51		🟢	44	13.56	22.0	39.98		🟢
13	13.29	22.5	23.94		🟢	45	13.56	21.9	30.26		🟢
14	13.92	22.9	24.10		🟢	46	13.56	22.5	29.37		🟢
15	13.92	22.9	23.78		🟢	47	13.54	21.1	25.58		🟢
16	13.20	22.5	24.33		🟢	48	13.56	21.5	30.38		🟢
17	13.92	22.0	23.91		🟢	49	13.55	21.0	30.12		🟢
18	13.91	23.0	24.68		🟢	50	13.53	20.5	43.50		🟠
19	13.22	22.5	23.46		🟢	51	13.52	21.2	25.45		🟢
20	13.92	21.5	25.25		🟢	52	13.57	22.0	33.99		🟢
21	13.22	22.5	24.50		🟢	53	13.53	21.0	25.35		🟢
22	13.92	22.5	25.47		🟢	54	13.58	21.5	29.66		🟢
23	13.54	22.5	23.78		🟢	55	13.55	21.5	28.05		🟢
24	13.45	22.8	22.82		🟢	56	13.55	21.5	32.38		🟢
25	13.92	22.9	23.32		🟢	57	13.57	21.6	28.24		🟢
26	13.35	23.0	23.17		🟢	58	13.54	21.3	24.86		🟢
27	13.25	23.5	24.41		🟢	59	13.56	21.5	28.82		🟢
28	13.56	24.0	24.75		🟢	60	13.57	21.2	28.80		🟢
29	13.76	23.5	23.92		🟢	61	13.57	21.5	36.48		🟢
30	13.23	22.7	24.11		🟢	62	13.56	22.5	29.54		🟢
31	13.25	22.5	23.77		🟢	63	13.39	20.5	28.12		🟢
32	13.35	22.7	23.86		🟢	64	13.56	22.0	29.61		🟢
∑ Voltage 433.35 V						∑ Voltage 433.32 V					
13.54 [V] Target Voltage						13.54 [V] Target Voltage					
0 [A] Current 0.00 [KW] active Power						0 [A] Current 0.00 [KW] active Power					

SITEMANAGER 7 HW161

Professional Facility Management

Technical Data: SITEMANAGER 7:

Technical Data	
Power Supply	24V (min. 18V, max. 75V DC)
Max. Power Consumption	40 watts
Size (W x L x H), Weight	483 x 162 x 44mm, 2262 g (483 x 212 x 44mm incl. SM_LOOM) 19.00 x 6.38 x 1.73in, 2262g (19.02 x 8.35 x 1.73in incl. SM_LOOM)
Ethernet	10/100/1000 Mbit Base-T auto sense
RS-232 interface (MINIDIN 9-pin)	1
Wi-Fi	1 EDIMAX 802.11N EW-7811Un V2 integrated Wi-Fi / 150 Mbit REALTEK RTL8188EUt
Analog Inputs 0-10V, 4-20mA, 0-20mA	8
Digital Inputs	8
Relay Outputs (Max. 230VAC / 4A or 48VDC / 1A)	8
BACS Bus Connectors	2
USB service port Wi-Fi	1 (internal)
Status LEDs	Back panel: normal (green), boot/error (red) Front panel: power (green) BACS status (green/yellow), state LEDs for inputs, outputs, alarms
User Guide	English, German
MIB	RFC 1628 and private extensions BACS MIB extensions
Operating Temperature	0 – 45 °C
Storage Temperature	0 – 70 °C
Max. Recommended Ambient Temperature	45 °C
processing unit	ARMCortex A8 800 MHz
Flash Memory	8GB
R.A.M.	512 MB
Humidity	20-95%, not condensing
Warranty	2 years