# SITEMANAGER 6

# Quick installation guide

# English

## System Overview

- 19" Remote Control Rack for rack and building monitoring
- Professional facility management device
- Supports native RS-232 UPS protocols from thousands of different UPS devices! The device can therefore manage almost any UPS device
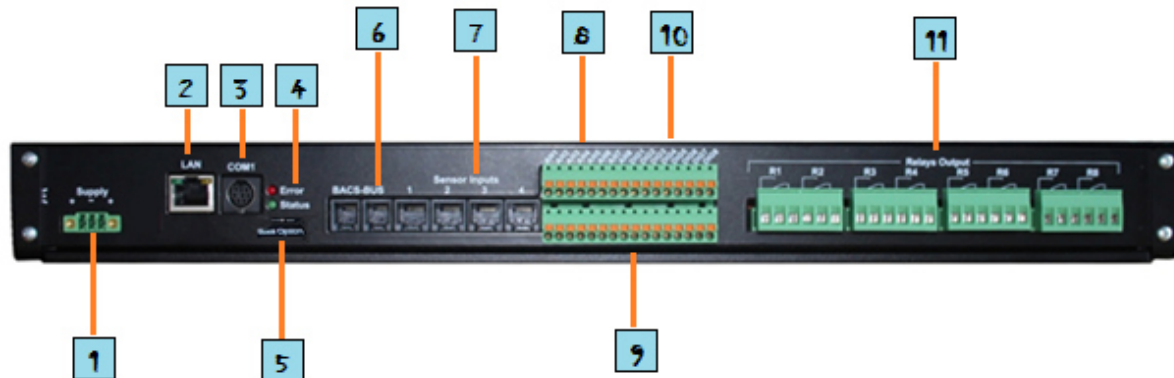- Integrated BACS Battery Management
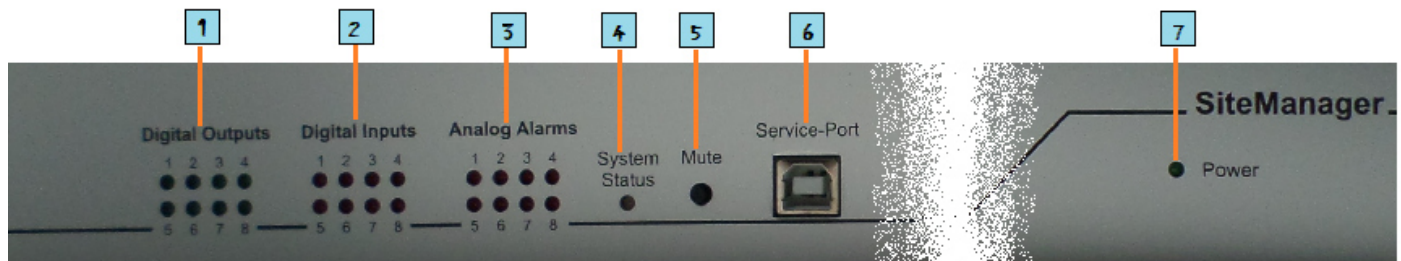


Features

- 2x RJ10 for BACS battery bus for up to 500 batteries
- 8 digital inputs (NC / NO configurable)
- 8 analog inputs (0 - 10V, 4 - 20mA, 0 - 20mA configurable via jumper)
- 8 relay outputs (changeover, max 230VAC / 4A or 48VDC / 1A)
- Timer for planned output controls
- Startup setting for each output (normally on / normally off)
- 10 / 100Mbit network connection
- RS-232 interface for connecting a UPS
- Remote configuration via web browser
- Supported protocols: MODBUS / IP, IPv6, HTTP, HTTPS, DNS, SMTP, NTP, sFTP, UPSTCP (UNMS)
- Battery-based real-time clock with timeserver synchronization
- LED alarm indicator, LED operating status indicator
- Integrated e-mail client
- Non-volatile memory for alarm data and measured value recording

## 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)<br>19,00 x 6,38 x 1,73in, 2262g (19,02 x 8,35 x 1,73in incl. SM_LOOM) |
| Ethernet | 10/ 100Mbit Base-T auto sense |
| RS-232 interface (Minidin 9-pin) | 1 |
| Analog inputs<br>0-10V, 4-20mA, 0-20mA | 8 |
| digital inputs | 8 |
| Relay outputs<br>(Max. 230VAC / 4A or 48VDC / 1A) | 8 |
| BACS bus connectors | 2 |
| USB Serviceport for BACS | 1 |
| MODBUS over IP | standard |
| Status LED's | Backpanel: normal (green), boot/error (rot)<br>Frontpanel: Power (green) BACS Status (green/ yellow), State LED's für In-, Outputs, Alarms |
| User Guide | Englisch, German |
| MIB | RFC 1628 and private extesions |
| operating temperature | 0 – 70 °C |
| storage temperature | 0 – 70 °C |
| Max. Recommended ambient temperature | 55 °C |
| processor | ARM Cortex A8 800 MHz |
| flash memory | 512 MB |
| random access memory | 128 MB DDR3 RAM |
| humidity | 20-95%, not condensing |
| guarantee | 2 years |

*SITEMANAGER 6 contacts:*

*Back side:*



1. Power connector
2. LAN port
3. COM port for UPS connection
4. ERROR / System status LED's
5. Operation Mode Selector
6. BACS Bus ports
7. Analog sensor connectors
8. Analog wiring connectors for custom sensors
9. Power Source for external sensors
10. Digital inputs
11. Relay contacts

*Front side*



1. Digital output channel LED indicator
2. Digital Input channel LED indicator
3. Analog Alarm LED indicator
4. Overall Alarm State status LED
5. Alarm buzzer mute button
6. USB service port for BACS.
7. System power LED and Boot state

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*Configuration step:*

*This is the recommended order for installation on site:*

1. Power up the SITEMANAGER 6
2. Connect LAN, UPS and sensors
3. Install all sensors, actuators etc.
4. Set up the IP address
5. Put the Operating Mode Selector into the correct position
6. Depower or Reboot the SITEMANAGER 6
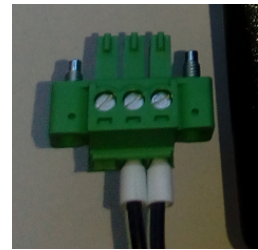7. Install the SITEMANAGER 6 into the cabinet and

## Powering up the SITEMANAGER 6



Der SITEMANAGER und SITEMONITOR 6 provides a flexible power input source.

As a standard, the SITEMANAGER 6 comes with a single 24V /1,5A – power supply and a coded power plug to avoid wrong cabling.

It is also possible to connect a second power adapter for redundant power from different sources



The SITEMANAGER 6 can be used with custom power sources as long as they met following specifications:

Minimum:            18 VDC

Maximum:            75 VDC

## Wiring UPS with SITEMANAGER 6

On the back of the device, next to the network connector, is a MINI DIN connector labeled COM 1:

Connect the supplied adapter cable MINIDIN / RS232 and then connect the standard data cable that came with your UPS to the adapter cable.



To ensure proper grip, place the included nuts between the small two latches. The SITEMANAGER or SITEMONITOR displays the data of the UPS in the UPS monitor after a short synchronization phase:

The status LED next to the MINI DIN connector flashes slowly and evenly green.

| Note |
| --- |
| Please note that just connecting the UPS is not enough: As long as you have selected the dummy, the LED will flash green even if no UPS model has been set up – By activating COM 1 without further configuration, the CS141 will select a place holder to ensure all menus are available. |

## IP and network settings

All models of the CS141 family are configured exclusively through the specially designed web interface. In order to facilitate the initial configuration or a quick on-site intervention, the CS141 family Web Manager is preset to the hard-coded IP address 10.10.10.10:

The following table lists regular operating modes:

| | |
| --- | --- |
| **Sliding switch to center position**:<br><br>Enables configuration mode. After reboot the hard-coded IP address 10.10.10.10 is active. |  |
| **Sliding switch to the right**<br><br>Automatic IP addressing: DHCP is activated and an IP address is set automatically. Check the MAC address of your CS141 to identify the IP address in the DHCP server table. |  |
| **Sliding switch to he left** Use of the IP address values manually configured. If DHCP is used, the IP | |

| | |
|---|---|
| address needs to be blocked for single usage. | ▮▭ |

### Initial configuration over 10.10.10.10

#### Preparing the Workstation

When operating in configuration mode, The SITEMANAGER 6 uses always a hard-coded IP and not changable address:

IP address 10.10.10.10
Subnet Mask: 255.255.255.0

Depending on the type of connection you choose, the service computer can be connected directly to a crossover cable or via the local network segment.

This is recommended network settings for the client PC:

IP address 10.10.10.11
subnet mask of 255.255.255.0
Gateway 10.10.10.11
DNS: none

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**Note:**

As long as the Operation Mode Selector is in center position, the SITEMANAGER 6 will overwrite all IP address data and fall back to the hard-coded IP address 10.10.10.10 – Changes of the IP address will only take effect after selecting manual operating mode and a reboot.
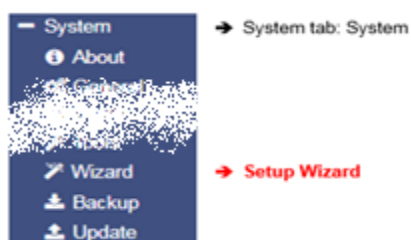
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#### The DHCP mode

When operating in DHCP mode, the SITEMANAGER 6 will query a valid DHCP server for an IP address. Please refer to the local system administrator to get the IP address of the SITEMANAGER 6

The MAC address of the SITEMANAGER 6 can be found at the device lable when turning the device:

### Quick Configuration - Using the Setup Wizard

For this configuration step, navigate to the following menu:

When you use the CS141 for the first time, the welcome screen will automatically start with the wizard. Please note that you cannot switch through the masks directly, you need to follow by pressing *next.*

The Setup Wizard helps to set up a basic configuration.

*General*
Provides basic information about the location to be installed, system language, responsibilities and temperature scale.

*Network*
Enter the network configuration - The necessary data can be obtained from the local administrator.

*Date & Time*
Provide basic information about the date, time, and time server

*UPS Setup*
Enter information about the UPS the CS141 shall be connected to

*Review*

Check data before you finish the configuration process before finishing.

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**Note:**

The Setup Wizard simply summarizes basic settings and provides a quick and convenient solution that can be used to make or change basic settings. If you want to perform the configuration completely manually, click here Cancel - You can always restart the Setup Wizard in the configuration menu. *But be careful:* Some entries such as UPS configuration have dependencies to advanced configuration entries the Wizard does not include.

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### *Digital and analog connectos*

The upper row provides analog and digital inputs. The lower row provides additional power connectors.
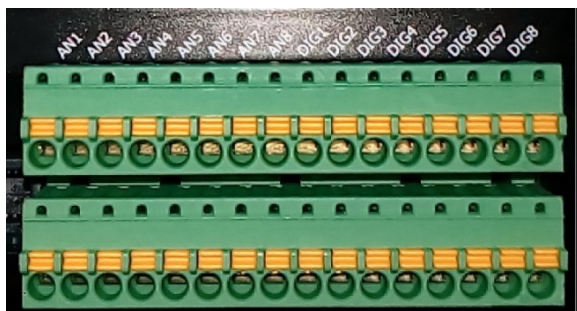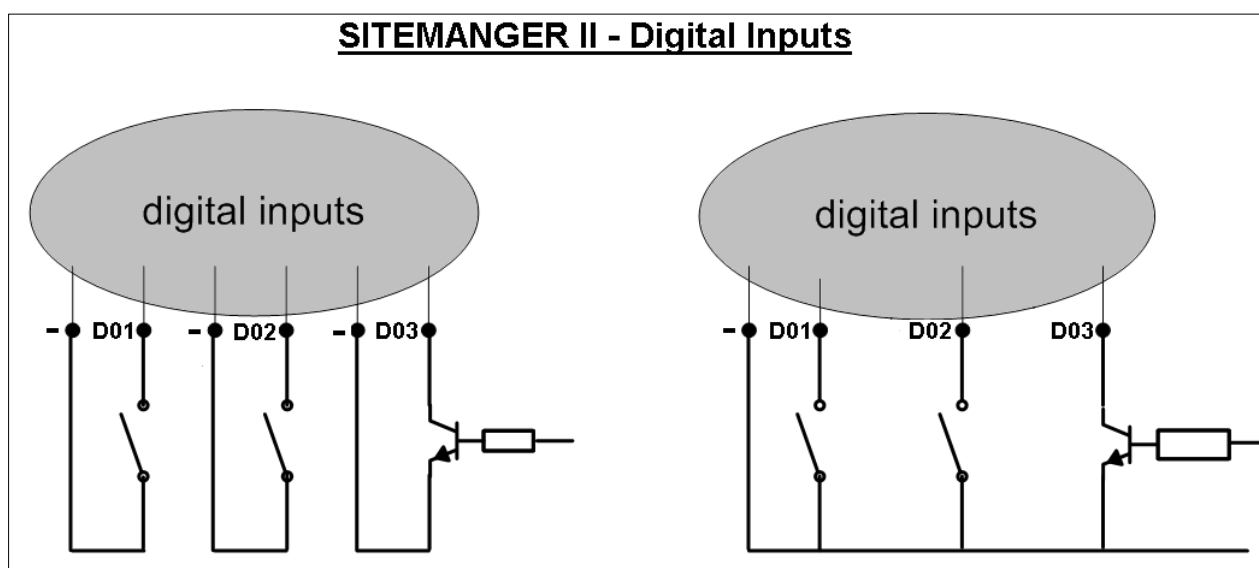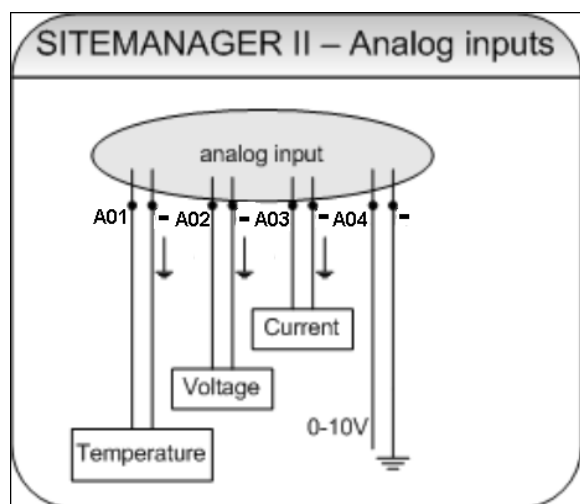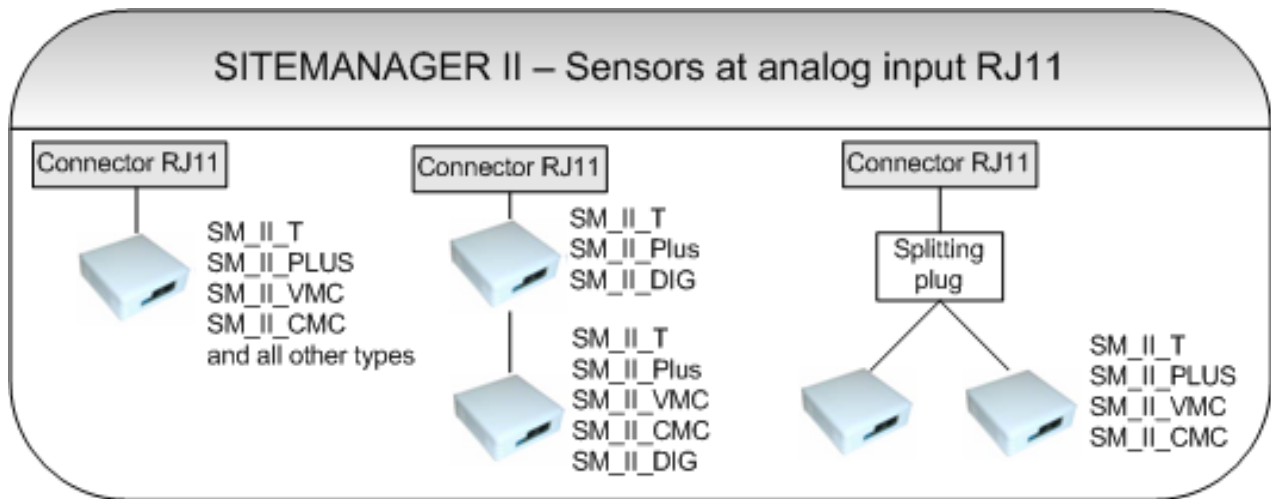


fig.: Upper AN1-8 are the analog inputs, DIG1-8 digtal inputs.
*The second row provides addition power for external sensors.*

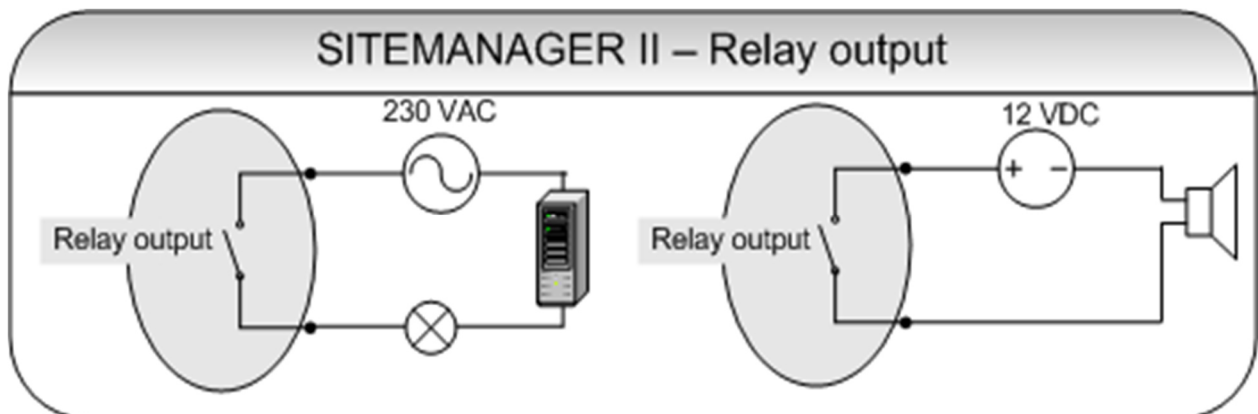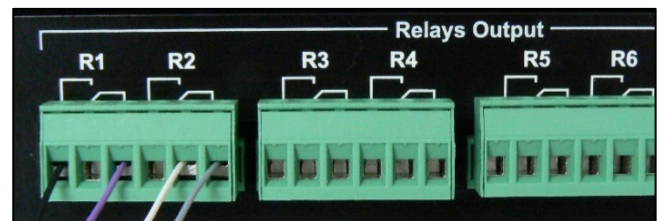| Terminal designation: | Connection type: |
|---|---|
| X1 / 12V + | Betriebsspannung +12VDC |
| X1 / - | GND - |
| X2/A01 | Analog Input 1 |
| X2/A02 | Analog Input 2 |
| X2/A03 | Analog Input 3 |
| X2/A04 | Analog Input 4 |
| X2/A05 | Analog Input 5 |
| X2/A06 | Analog Input 6 |
| X2/A07 | Analog Input 7 |
| X2/A08 | Analog Input 8 |
| 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 |

SITEMANAGER II – Sensors at analog input RJ11

*Relay conctacts*

The SITEMANAGER 6 provides 8 switchable relay contacts that can be used to switch circuits up to 250V / 4A.

Each relay has one normally closed contact (NC) and one normally open contact (NO). For connection examples, please note the following wiring example:





SITEMANAGER II – Relay output

*SITEMANAGER 6 sensors and external devices*

With the SITEMANAGER 6, the clamping and screwing strips can be removed with a suitable tool.

The SITEMANAGER 6 provides analog and digital inputs, which can be operated either via regular plugs or via the terminal strip. Please note that you either use pre-assembled cables (RJ11) with the corresponding analogue sensors or use the connections via the terminal strip.

Each of the 4 RJ12 sockets can read 2 analog input signals (0-10V o. 0 / 4-20mA), so it is possible to connect 8 analog sensors.