GENEREX

NEWSLETTER

Overview

Software UNMS II
Customizable network monitoring and management software

Screen for a highly complex electrical installation of a mobile communications provider in Austria.
Less experienced users can also easily manage the system. Complex system relationships are presented in a clearly structured overview.

Dear GENEREX Customers,

We announced the development of a number of new products in our May 2007 Newsletter that we would now like to present to you.

The CS121 based on the new Hyperstone Processor 32SX (Also referred to at GENEREX as the „HW131") starting with the production of the 06/2007 series is equipped with a COM 3 interface that can be used for connecting the BACS Battery Bus. No firmware has been released for this series yet, but it is already present on the market and has been installed in about 8000 UPS systems. For these devices, a firmware upgrade will soon be made available that can be used for monitoring batteries. Starting in 2008, the CS121 models will be upgraded using the new HW131 and the production of all BUDGET models after 3/2008 will be upgraded with and additional 2 MB of flash memory and an additional 4 MB of RAM which will enable these devices to archive log entries for a longer time and add new functions.

In January 2008, a new „CS121 MINI SLOT" will be released that is a combination of the CS121 BUDGET SLOT and the professional CS121 SC SLOT versions with the inclusion of a COM2 but no AUX/COM3 connection. The CS121 MINI Slot has been designed for the Phoenix Tec/Centrallion UPS systems and for other derivatives of these models from other manufactures.

The new BACS C2x Series will soon be ready for release and the BACS C2x Modules will already be delivered to a selection of customers in spring 2008. This will be the newest generation of battery management sensors and with that, the most economical and the most professional solution on the market.

We wish you a successful conclusion of this year and a great start into 2008!

Frank Blettenberger

New Price Lists

The current GENEREX price list for 10/2007 has already been sent to you separately. It contains information about our newest products and current prices.

Please forward this price list to your purchasing department or authorized personnel! All previous price lists are no longer valid! Send an email to newsletter@generex.de and notify us if you need the current price list and we will act promptly to provide you with the needed information.

LISTING ERROR !

Page 30/31 : Product code „PWRCON04" for BACS_Module_C10

The specification of the PWRCON04 cable in the listing is an error. The new BACS C10 Modules do not include any cables! If needed, these components must be ordered separately!

New DOCU CD

All of our products now include a German and English documentation CD ROM. It contains a clear and complete collection of manuals for all of the GENEREX products. The quick and simple production of the CD enables us to quickly provide our customers with documentation that covers all of the latest changes and updates. In this way, the contents of our manuals are able to reflect the most up-to-date information on our products.
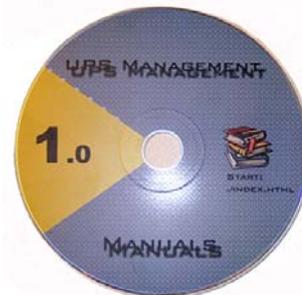
The latest version of the DOCU CD can be obtained online under the following link:
http://www.generex.de/manuals/docu-cd

Multilingual Quickstart Booklet

Due to Europeanization and the multilingual aspects related to it, all of our products, CS121, SITEMANAGER II, SITEMONITOR II, SITESWITCH 4 and BACS WEBMANAGER include instead of an English user manual a set of Quickstart instructions in all of the major world languages (This does not apply to OEM customers with their own user manuals).

These Quickstart instructions describe how to integrate the device into the network. This includes a short description for setting up a network shutdown with RCCMD, and a selection of some of the other most important possibilities for using the device.

Currently the following languages are available: German, English, Japanese, Chinese, Korean, French, Italian, Spanish, Portuguese and Turkish. Additional languages are in progress. The current versions of the Quickstart Booklets are available on our Website under:
http://www.generex.de/manuals/quickstart

New Products

BACS – Battery Analysis & Care System

The BACS System is composed of 3 system components:

  a) BACS Modules (Module type depends on battery size and voltage),
  b) BACS WEBMANAGER as control unit and
  c) Bus connection. Bus cables are used for connecting the modules and BACS WEBMANAGER together.

New

BACS C10 Module
BACS_MODULE_C10

For 6 Volt and 12 Volt 7-3000Ah lead batteries
(Module size: 64mm*50mm*25mm)

The new BACS C10 Modules are housed in casing made of durable synthetic materials that are easy to install inside of the battery cabinets. The connections to the BACS WEBMANAGER are made using standard cables so that the assembly of special cables is not needed!

The BACS C10 System is dedicated to monitoring battery block status values. For exact analysis, every battery module has an integrated circuit for precisely measuring the internal resistance of each individual battery. Should corrosion or sulfation increase the blocks internal resistance, this will touch off an alarm. In this matter, alarm values can be adjusted to match the different battery types.

In contradiction to the BACS C1–C7 System, the BACS C10 System has no equalizing function. The charging pulses of the individual battery are not regulated or balanced out. This results in no heat being radiated from the unit which makes it possible to completely encase it. Otherwise, its functioning is identical.

The advantage of the BACS C10 Modules is that they can be used for 6V and 12V batteries within the range of 7 – 3000Ah. The compactness of this module makes it very easy to install in the tightest spots and it emits no heat. In reference to the listing error as stated above, please note that delivery does not include the PWRCON04 connection cable which must be ordered separately to match the size and cable lugs of the battery. The bus cables have been standardized and no longer require any special tools, but these cables must also be ordered separately and take into consideration the distance between the individual batteries.

Another advantage of this model is that it can be exchanged without having to disconnect the battery from the charging unit or UPS because its connections are completely insulated so that the module can easily be completely disconnected.

BACS C20 and BACS C21 Modules

BACS_MODULE_C20
(12 V - with / without Equalizing)
For 12Volt 7-300Ah lead batteries
(Module size: 80mm*55mm*27mm)

BACS_MODULE_C21
(Large application range - with / without Equalizing)
For 2Volt 60-3000Ah, 4Volt 40-1500Ah and
6V 12-800Ah lead batteries
(Module size: 80mm*55mm*27mm)

The BACS C2X module has also been cased into a durable synthetic housing and made for easy installation. The connections to the BACS WEBMANAGER are made using pre-confectioned bus cables which makes the assembly of special cables as with the C1 module no longer necessary!

The BACS C2X Modules possess the same properties as the BACS C1–C7 System, which includes the Equalizing function. Using the bus system and all of the connected battery modules, the BACS WEBMANAGER (control unit) gathers the voltage measurements of each battery and continuously calculates the optimal set charging values for each individual block in relationship to the overall system voltage. The calculated set values are relayed over the data bus to the corresponding individual modules. Then each battery module independently regulates the voltage to its corresponding battery using an integrated bypass. The BACS C2X Modules are available for 2V, 4V, 6V and 12V lead batteries within 7-3000Ah. The market introduction for the BACS C20 modules will be geared exclusively towards the large market for lead-based 12V batteries. With the entrance of the C21 module starting in April 2008, the C10 will become obsolete and replaced by the C21. The C1 module which is used for smaller batteries up to 12Ah will remain in production. After February 2008, the C5 and C7 modules will only be made available for replacement orders.

New

Tip for New Customers
UPS System Preparation for BACS

For customers who are interested in eventually retrofitting their new UPS systems with the purchase of a BACS System, but are not yet ready due to budget considerations or for other reasons can now easily and affordably prepare their systems for battery monitoring later.

The preparation for retrofitting with BACS - or any other modern battery monitoring system - is now possible for new installations. Since retrofitting is usually considerably more expensive than an immediate installation, batteries can now be equipped with the necessary cabling at a low cost from the very beginning.

Offer your customers the „UPS System Preparation for BACS“! Analogous to new car purchase options, customers can now order pre-cabled batteries. Later, the BACS retrofit will be child play – snap-on – finished! The small expense involved in attaching the cables to batteries from the beginning are only a fraction of what labor will cost when the users decide to upgrade later if these preparations have not been made!

The „PWRC2xCONx" power supply cables (15 cm, 25 cm and 40 cm) are listed in the GENEREX price list and are available immediately. This will open up a whole new range of opportunities to you and your customers for generating more turnovers! No other battery management on the market is simpler or more economical!

BACS WEBMANAGER II

Completely re-designed control unit with many new functions !

**Modern control unit for the
BACS C10 and C2x modules
and for network based
UPS and facility management**

Feature overview of new model:
● Monitor each battery individually
● Connections for the simultaneous monitoring of UPS and other devices with serial connections (e.g. SENSORMANAGER, SM_T_COM, etc.)
● Connections for auxiliary environmental sensors (e.g. temperature, humidity etc.)
● Automatic calculation of set point and threshold values for all parameters: e.g. internal resistance, voltage and temperature, cycles, etc.
● Determination and evaluation of battery conditions during charging, discharging and recovery phases in all areas.
● Graphical evaluation of data for observing and predicting battery failures of individual batteries based on their charging and discharging performance.
● Alarm notifications on LC panel display and sounding alarm.
● Alarm relaying to users by network or modem via email, SNMP and RCCMD.
● WEB Server for simple configuration and status display.
● LC panel displays current status.
● Integrated „programs" for easily assigning C2x module addresses.
● Integrated distribution box – no more extra converter necessary.
● Data archiving capability for all batteries up to 12 years on an integrated Flashcard.
● Alarm data archiving using log file with time and date.
● Equipped with a real time clock and additional synchronization capability with a network time server.
● Completely replaces any UPS SNMP adapter.
● Option : Modem Analog/GSM for integration into RASCONTROL tele-assistance system.

This highly developed Ethernet-Manager with LCD-Display can be used for monitoring up to 500 BACS C10 or C2x modules. For the C1-C7 modules the maximum limit is 190 as with the current BACS WEBMANAGER Type I.
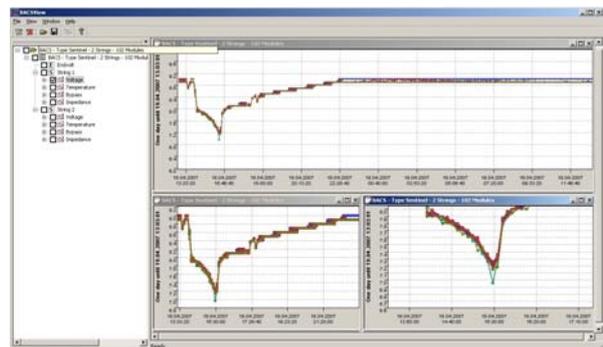
BACS Battery analysis for 66 batteries graphically displayed using the BACS VIEWER. Each change in impedance, temperature, voltage and bypass is recorded regularly.

Further technical details will be made available in February 2008!

Webtarget 2D/2E
With more memory for SM and BACS WEBMANAGER

New in our program is the MWT2E as a „low-power" version of the CS121 R (RIELLO) Slot Adapter. With this module, the CS121 R can also be used in UPS Systems that provide less power to the slot. The same MWT2E will be used for the new CS121 MINI SLOT so that less power consumption is needed in this case as well. The MWT2D/E is also equipped with a new 32-bit processor (not shown picture).

The module MWT2D replaces the MWT2C of the BACS WEBMANAGER and SITEMANAGER II. This doubles the memory of both devices which will make it possible to extend both of their functionalities. All new deliveries will be based on

the memory extended models of MWT2D or MWT2E – please take notice of this when updating older products by selecting the correct extensions. The new MWTs are indicated by the addition of „4MB" to their name endings e.g. „BACS 4MB".

MWT 2D/E

New!

CS121 as MINI-Slot
## „Mini-Adapter" for the monitoring and control of UPS Systems

Starting in January 2008, the new CS121 as „Mini-Slot" will be available. The CS121 Mini-Slot will be a combination of the CS121 BUDGET and the CS121. That means that it will have a COM 2 like the professional CS121 for connecting a SENSORMANAGER, individual sensors like the SM_T_COM (temperature sensor), the new SM_T_H_COM (combo-sensor for temperature and humidity), Modem, Pipe_Thru, and the likes – however it will not have an AUX or COM3 connection.

That way the CS121 Mini can also be used with such UPS devices like the Phoenix TEC and the Centrallion that use such a format. In addition, it can also be used in all types of copies of such UPS devices that are imported from China and India.
The device is operational within a wide range power supplies. It is suitable for use with UPS

Systems that provide as little as 1,3 Watt (minimum) to the slot connection. The upper limit value is 30 Volts.
The CS121 MINI-Slot also lies between BUDGET and full featured version in price. We are quite sure that these are currently the best devices available on the market for these UPS Models!
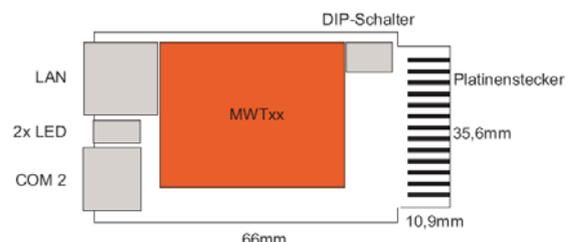
UNMS II with UPS Type Transfer !

Automatic recognition of foreign manufactured UPS devices !

Since its introduction, it has always been necessary to specify which non-OEM UPS systems would be used in addition to the manufactures models when ordering the individually customizable UNMS II UPS Network Monitoring and Management System. This will now become an issue of the past. Starting in February 2008 with the coming of Version 1.3, UNMS II will work with UPS systems from varying manufactures. Previously, this type of operation could only be implemented using SNMP RFC 1628 compatible devices, but other CS121 or UPSMAN managed network UPS from other OEM customers were excluded.

Now on start up, the UNMS II recognizes the configuration of other devices in the network independent of manufacture type and can monitor all CS121 devices or systems connected to them.

Naturally, this only applies to the licensed versions of UNMS II! As before, the free version works only with UPS devices of the specific manufacture and CS121 or UPSMAN.


UNMS II at the AIRBUS location in Hamburg for monitoring many UPS devices for the A 318, 319 and parts of the A 380 production facilities.

Autosearch for UPSMAN and CS121 !

The "Search UPS" function is not a basic feature that is included with all OEM versions of UPSMAN our serial UPS Management Software. This is due to the vast list of UPS model types that our OEM customers support. The more devices that are listed, the longer the „Search" will take and the greater the risk will be that the search interferes with the UPS device that it is trying to detect. The following pictures display how the UPS search looks and operates.

OEM customers wishing to implement the automatic UPS search function in their software must submit an evaluation of their ability to fulfill certain requirements that will also provide a basis for estimating an offer. The estimated costs for this service will be primarily based on the scope of work. Please contact us for a consultation if you are interested in implementing this feature!
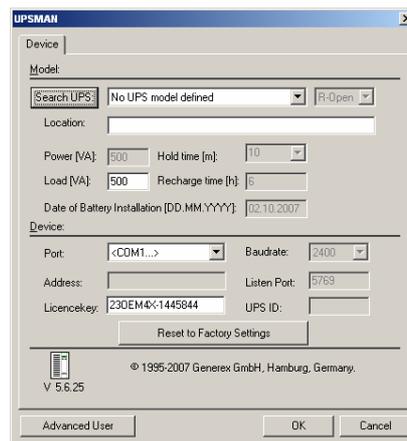
„SEARCH UPS" button in UPSMAN – for starting the automated identification of UPS models connected to COM and USB.


Progress display while in SEARCH UPS Mode – indicates the current interface that is being searched.

UNIX UPSMAN – Graphical configuration replaces CURSES UPS_CONF

The configuration module based on the Curses programming language for the UNIX version of our serial/USB UPS Management-Software UPSMAN and RCCMD has not changed in 15 years. However, support for this platform has recently been abandoned by the new UNIX systems and this forces us to do the same. Starting with CD 5.40, UPS_CONF will no longer be available and instead it will be replaced by JUPS_CFG – a JAVA based configuration tool. These changes will also follow for RCCMD with the release of CD 5.41 or after February 2008.
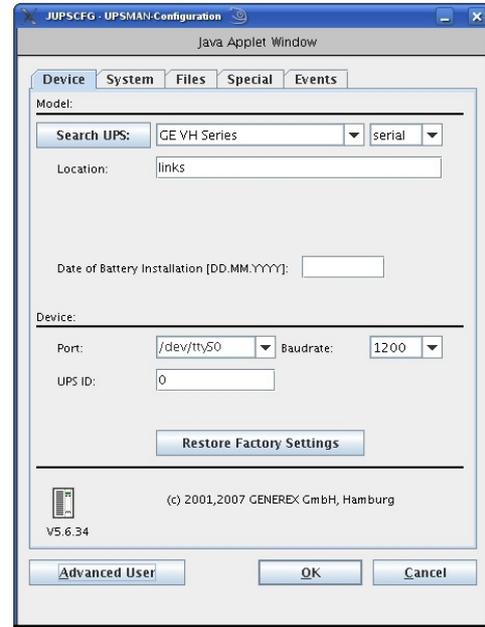
New!

CS121 – Scheduling function extended !
## Manual activation/deactivation in Scheduler for EVENTS

The CS121 has a new function that makes the monitoring and control of the UPS system easier. This new CS121 Scheduler function enables users to select whether automated event actions that are normally triggered by critical situations (e.g. power outages) to be manually or automatically disabled.
Application example: Conditions on certain days may require that a Shutdown be avoided even at the expense of completely draining the batteries. On the other hand, conditions on other days will allow for shutdowns when power outages occur. Typical occasions for the use of this application are on days when companies and stock exchanges are facing deadlines to prepare their quarterly or year ending financial statements. At such times avoiding system changes is imperative and in no case should operations in progress be impeded.
So during the day time between Monday and Friday for example, all automated actions of the CS121 for power outages can simply be deactivated and set as activated at night and on weekends.
All EVENTS can be turned on and off manually (by mouse click) or using the appointment scheduler.
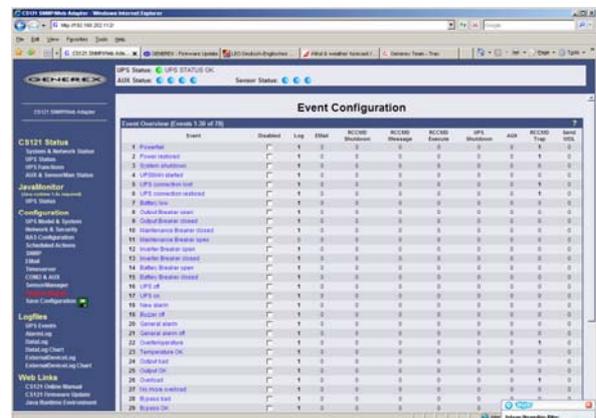

The EVENT configuration screen displays an overview of the statuses for all events.

Threshold values in the EVENT configuration
CS121 and UPSMAN - configurable threshold values for UPS devices

Starting immediately, all OEM customers in levels 1-4 will get the function „Configurable Thresholds" for their UPS devices in CS121 and UPSMAN free of charge. Previously, the function was made available only to OEM customers who had explicitly ordered this function. After one year of exclusively reserving this functionality for such customers, we will now make it available to all other OEM customers as a free enhancement for their CS121 and UPSMAN products.
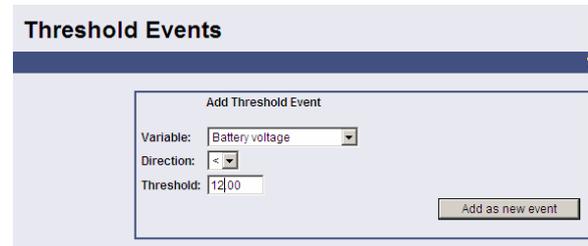

New „Threshold"configuration parameter: in this example, a threshold is being set for an alarm defining a lower threshold value for the supplied voltage to the battery.

RCCMD Wizard – New Functions !

The RCCMD Software is used for sending network shutdown commands and messages between different operating systems and networks. The newest feature for the Windows version of RCCMD is that multiple instances of the service can be started. While this type of service behavior is unusual under Windows it can certainly be applied effectively as is the case when RCCMD TRAPS are in use for example. Using this method, a RCCMD client can be used to monitor a maximum of 30 CS121 devices per RCCMD client process and relay messages when alarms occur. So when 2 different RCCMD clients are running (Certainly with one individual license key per process!) 60 UPS devices and be monitored and so on. This can be used to create an extensive UPS monitoring system – even without the use of any graphics, a simple text box can be used to adequately describe the occurrence of any UPS problem!
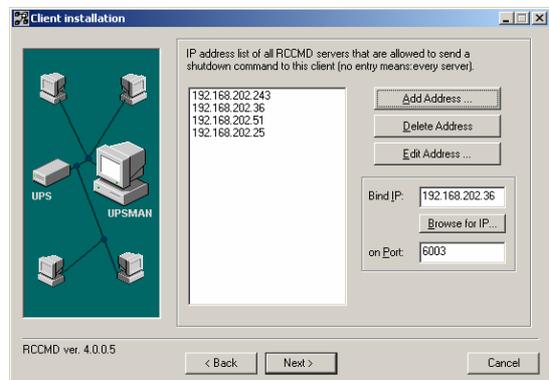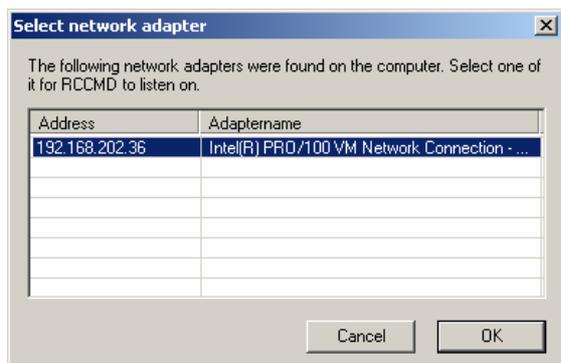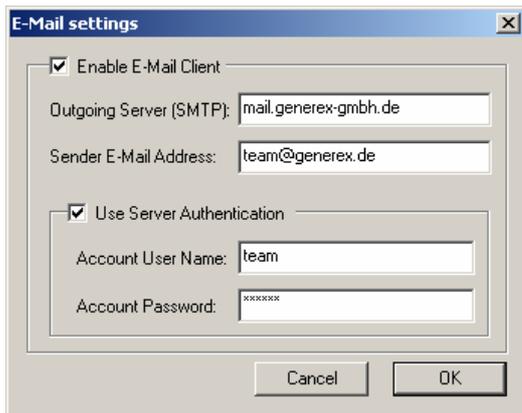

Define which IP addresses are to be monitored and configure the network card that is to be used for this purpose.
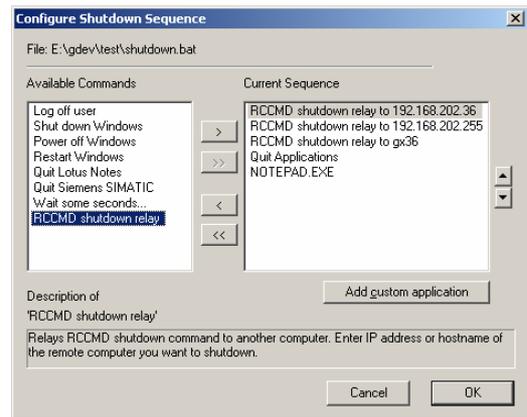

Configuration of the RCCMD relay: This turns the RCCMD Client into a RCCMD Server that can shutdown several 100 RCCMD Clients simultaneously – much faster than a CS121 at the same task.

Selection and definition of the RCCMD network card lists.

Email configuration for RCCMD – so incoming messages from a CS121 can be relayed by the RCCMD Client.

Shutdown configuration for RCCMD and UPSMAN – define a sequence of actions that are to be taken in the event of a Shutdown.

CS121 HW 131 Software Errors – Important Customer Information

CS121 HW 131 Software Errors V 3.65 - 3.75

Within the course of service discussions, we discovered that certain firmware releases for our UPS Adapter Model CS121 HW 131 (Market release mid 2006) caused errors that could eventually lead to malfunctioning in some cases.

This occurred only with the CS121 Models based on the „HW 131"with Firmware version 3.65 to 3.75. None of the older HW 121 Models from the years 2000-2005 were affected.

The error occurred predominantly in networks with more modern switches (e.g. CISCO, HP Procurve and similar Multicasting switches) or in networks that are more often subjected to considerably higher than average loads for long periods of time. Such network loads were causing the device's Watchdog to trigger Rebooting. The system reboot would malfunction during the start up phase when being flooded with broadcasts. This error would be announced by the sudden disappearance of the device from the network. A manual restart would only temporarily remedy the problem until the next occurrence of this error.

It is somewhere between moderately and highly probable that this error will occur with the CS121 HW 131 – yet the exact conditions under which

this error arises can not be ascertained – this can happen directly after starting, after several months of operation or practically never. Nevertheless, we urgently recommend that all of our customers install the newest firmware available from our website for these devices. Even if no such errors have occurred till this date, we must insist that this advice be followed.

We regret any possible inconveniences caused by this situation and will gladly assist you with any further help or information needed in this matter.

The new Firmware also contains an improved Flashwizzard that helps you to more easily install the newest firmware. This Flashwizzard prompts the user upon recognition of the corresponding Hardware/Software combination to shortly interrupt power supply to the device (Either by unplugging the CS121 power cable or by pulling out the UPS Slot) to insure a safe and complete execution of the update process. In case an update cannot be successfully completed, our support will be able to lend you further assistance in completing the process once you send in the configuration file „upsman.cfg" which is created using the „Backup Configuration" function.

SIEMENS Profibus

New!
CS121 PROFIUS ADAPTER

The full featured CS121 models (SC, L, R, F) are equipped with a RS232 interface on COM2 that can output all UPS data via MODBUS. The new SPI3 PROFIBUS Converter can be attached to these COM2 connections and convert the data into PROFIBUS.

To use the SPI3 Profibus Converter, it is not necessary to integrate the corresponding CS121 L/SC/R into an Ethernet network. The CS121 L/SC/R converts the serial protocol of the device that is connected to COM 1 into Modbus RTU

protocol which is then read and converted by the SPI3 PROFIBUS. The SPI3 PROFIBUS Converter has been especially programmed for direct use with the CS121 – NO other RS232 PROFIBUS data devices is compatible! This product includes with delivery a special DBSUB9 male to Mini-8 connection cable for the connection between the CS121 COM2 and SPI3 PROFIBUS. The Connection/Adapter cables for the device that is to be connected to the other end of the PROFIBUS is not included since only specific cables can be used for different devices.
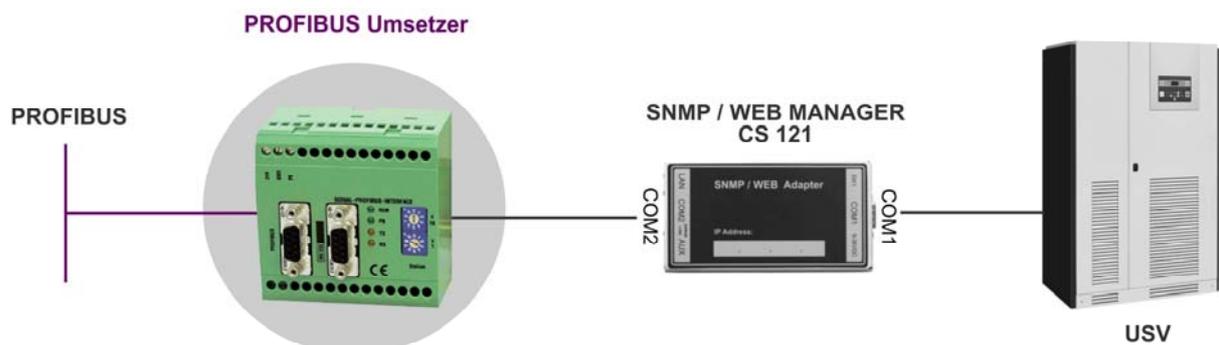
New GENEREX – Internet Presence

We would like to introduce customers to our completely redesigned Web site that has a totally new layout. This will present our products and services more clearly in a visual context that has greater appeal.

Our customers will have the same possibilities as before to access areas of service for obtaining links and data for their websites e.g. Downloads. For certainty, we do ask that you check all current links to confirm their validity. We have listed and tested all of our own links to our OEM customers.

www.generex.de

Its all new; so please call our attention to any errors that you notice and we would also appreciate any constructive suggestions.

Discontinuation of old products

MULTI IQ

The MULTI IQ – parallel connection Multiplexer has been discontinued. Due to the CS121 „PIPE THRU" function, demand for this device has gone back drastically. To manage UPS systems that are located in separate networks, every CS121 (full-featured) COM2 connection can be used to couple a second, third or even up to 5 devices in a row. In effect, this has rendered the MULTI IQ practically obsolete.

BACS C5 and BACS C7
The C2x successor is coming in February 2008

The BACS Module C 5 was already discontinued back in the middle of 2007; the BACS C7 module will also be replaced at the beginning of February 2008. Support for the C5 and C7 Modules will continue e.g. Firmware upgrades, BACS Viewer, and the likes, however new installations will only be equipped with BACS C1, C10, C20 and C21.

BACS WEBMANAGER – Type I
The BACS WEBMANAGER II is coming in May 2008

800 BACS WEBMANAGER units have been sold to date which is few in comparison to the CS121 but a lot in the area of battery management. The BACS WEBMANAGER Type I based on the CS121 will be continued until Spring 2008, afterwards it will be succeeded by the BACS WEBMANAGER II which will be based on the higher performing new CS151 platform.

Problem Solutions

Problems with the CS121 R and AROS /RIELLO Slots

Customer support cases have revealed that the slots in the UPS devices of these manufactures have different power supplies. Smaller UPS devices (10-20kVA) provide too little power to the slot for the CS121 R. The larger models (>40kVA) do not have this problem. For smaller devices, it then becomes necessary to use the CS121 L or BL which have their own power supply. This difficulty will soon be corrected once the new CS121 R models based on the MWT 2E with reduced power consumption (see page 6) become available. At this time it will again be possible to use the CS121 R with smaller UPS.

GENEREX Headquarters in Hamburg

GENEREX GmbH
Brunnenkoppel 3
22041 Hamburg
GERMANY

Tel.: +49-40-2269291 - 0 (Reception)
Fax: +49-40-2269291 - 10

Bank account:
HAMBURGER SPARKASSE
BLZ 20050550
Konto Nr. 1201121470
SWIFT: HASPDEHHXXX
IBAN DE 582005055012011214 70
VAT-ID No: DE 811668125

GENEREX Business Locations

Production Management

GENEREX GmbH

Stettiner Str. 23

D-37412 Herzberg

Tel.: +49 (0) 40 2269291-25

Fax:+49 (0) 40 2269291-10

Email: a.wassmann@generex.de
Internet: http://www.generex.de

UNIX Development

GENEREX GmbH

Obere Weinsteige 66

D-70597 Stuttgart

Tel.: +49 (0) 711 3910823

Fax:+49 (0) 711 3916694

Email: m.herrmann@generex.de
Internet: http://www.generex.de

Asia Marketing & Support

GENEREX GmbH Asia Pacific

9F, Kolon techno valley, Kasandong

Keumchonku, 153-770 Seoul, Korea

Tel.: +82-50 22692910

Fax: +82-50 22692911

Email: jonson@generex.de
Internet: http://www.generex.co.kr

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