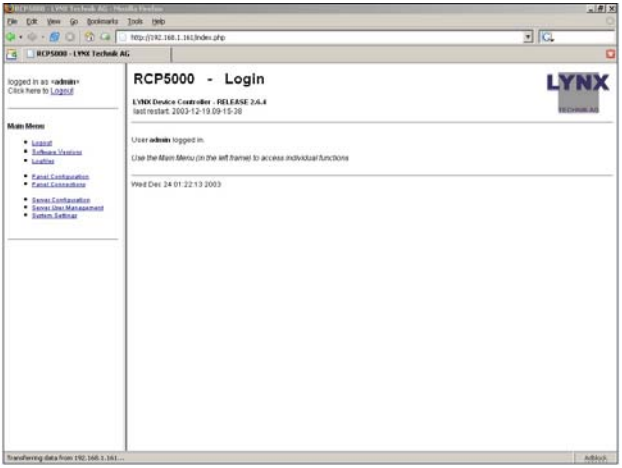
Version 1.0

Reference Manual

R CP 5000

Remote Control Panel

Series 3000 / 5000 Control System



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Warranty

LYNX Technik AG warrants that the product will be free from defects in materials and workmanship for a period of two (2) year from the date of shipment. If this product proves defective during the warranty period, LYNX Technik AG at its option will either repair the defective product without charge for parts and labor, or will provide a replacement in exchange for the defective product.

In order to obtain service under this warranty, customer must notify LYNX Technik of the defect before expiration of the warranty period and make suitable arrangements for the performance of service. Customer shall be responsible for packaging and shipping the defective product to the service center designated by LYNX Technik, with shipping charges prepaid. LYNX Technik shall pay for the return of the product to the customer if the shipment is within the country which the LYNX Technik service center is located. Customer shall be responsible for payment of all shipping charges, duties, taxes and any other charges for products returned to any other locations.

This warranty shall not apply to any defect, failure, or damage caused by improper use or improper or inadequate maintenance and care. LYNX Technik shall not be obligated to furnish service under this warranty a) to repair damage resulting from attempts by personnel other than LYNX Technik representatives to install, repair or service the product; b) to repair damage resulting from improper use or connection to incompatible equipment; c) to repair any damage or malfunction caused by the use of non LYNX Technik supplies; or d) to service a product which has been modified or integrated with other products when the effect of such modification or integration increases the time or difficulty servicing the product.

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Regulatory information

Europe

Declaration of Conformity

We LYNX Technik AG
Brunnenweg 3
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Germany

Declare under our sole responsibility that the product

TYPE: R CP 5000

To which this declaration relates is in conformity with the following standards: (Environments E1…E3)

EN 55103-1 /1996
EN 55103-2 /1996
EN 60950 /2001

Following the provisions of 89/336/EEC and 73/23/EEC directives.

Winfried Deckelmann

Weiterstadt, July 2005

Place and date of issue *Legal Signature*

USA

FCC 47 Part 15

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to the part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense

Contents

Getting Started

Packaging

The shipping carton and packaging materials provide protection for the panel during transit. Please retain the shipping cartons in case subsequent shipping of the product becomes necessary.

Product Description

The R CP 5000 is a compact control panel designed for use with Series 3000 and Series 5000 product lines. The panel can be used with or without the LYNX C3_local Control system and will provide access and remote control to any module connected to the system.

An integrated alphanumeric display with software assignable illuminated buttons and digital rotary controls provide the user interface. The system can be connected via Serial RS 232 or LAN depending on system connectivity requirements and the controller hardware installed in the LYNX racks.

System Requirements

The system the control panel is to be connected to **must** have a R CT 5020 or R CT 5030 LYNX controller fitted.

If the panel is an expansion unit in a system which already has R CP 5000 panel(s) then the panel can be connected to an existing panel using the LAN connection.

The panel can also be used with systems currently using the LYNX C3_local PC client.

Please refer to the ***installation*** section to determine the installation scenario which best matches your application.

Control Panel Layout

Figure 2 shows the physical layout of the R CP 5000 Control panel.

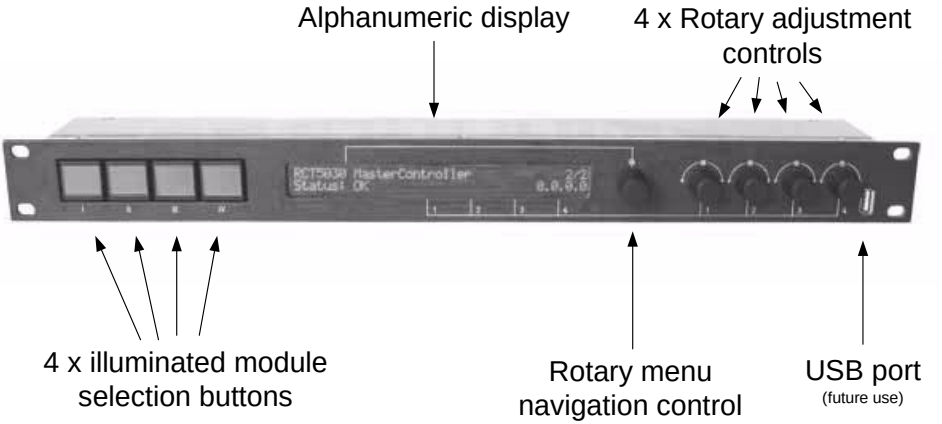


Figure 2 – Control Panel Layout

Connections

All connections to the panel are made on the rear, fig 3 – (with the exception of a front USB connector which is reserved for future use).

Panel Rear

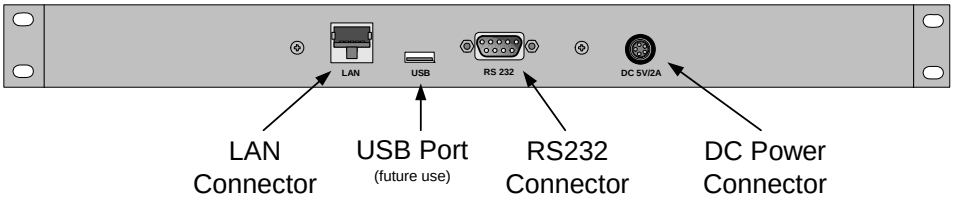


Figure 3 – Rear Panel Connections

LAN Connection

This is a standard 100 baseT LAN connection using an RJ45 connector. This port is used to interface to a network with a host rack with using RCT 5030 Master controller or to network other R CP 5000 panel(s).

This port is also used for panel configuration.

USB Connection

The front and rear USB ports are reserved for future use.

RS 232 Connection

Standard male RS 232 serial connection used to connect the panel to a host rack with an R CT 5020 Controller.

RS 232 Connections

Note: Use a standard 9 pin 1:1 serial cable (no pin 2/3 swap). Max length is 5m. (**Note** some early control panels were supplied with female connectors with pins 2 and 3 reversed – an adapter was supplied for these panels)

Pin Number	Connection	Pin Number	Connection
1	GND Shield	6	
2	RX 232	7	
3	TX 232	8	
4		9	
5	GND		

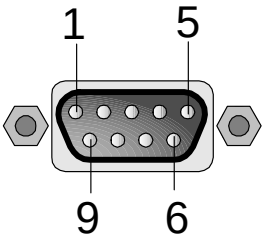
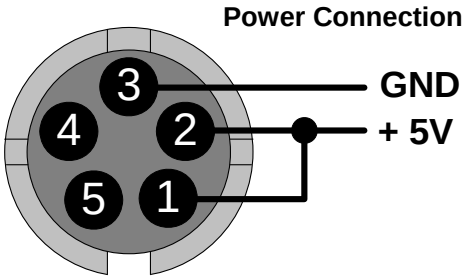


Fig 4. RS 232 Connector Pin ID

DC Power Connection

The panel has a DC input designed to be powered from a standard LYNX power brick (R PS 3001). DC Power input is 5V / 2A max.



Male Connector
(view looking into connector from front)

Fig 5. DC input connector pin ID

Installation

Mechanical Installation.

The control panel can be installed anywhere there is adequate 19" rack space available. (Or a suitable control console cutout). The unit occupies 1 RU of vertical rack space and requires approximately 180mm (7 inches) allowance for depth including the rear connectors.

Note: If interfacing the panel RS 232 then please ensure the panel is close enough not to exceed the maximum 5m cable length.

Electrical Installation

Power. The panel is DC powered and requires a standard LYNX external power brick (model R PS 3001). Connection is made to the rear DC power connector using the 5 pin twist lock connector.

Interfacing

Please refer to the 3 scenarios shown next to find the best example which fits your particular installation and follow the instructions to set up the panel for correct operation.

Recommended reading:

We have a white paper "***Lynx Technik Control Systems***" which describes the control system in some detail. Please take the time to read this if you are not familiar with the LYNX control system.

Use the URL below to download the PDF file.
http://www.lynx-technik.com/index.php?id=61

Scenario 1

Small system (1 to 8 racks) with no existing control system in use.

First thing to consider this installation is the presence of a host RCT 5020 controller in the LYNX rack (and R CT 5010 bus expanders in other racks if control for more than 1 rack is needed). As there was no pre-existing control system installed its very likely there is no controller hardware installed in the racks. Please confirm the presence of the required LYNX controllers before continuing.

Assuming the host rack does have an R CT 5020 Rack Controller then the panel is interfaced to the host rack with the R CT 5020 using the RS 232 connection on the panel which is connected to the "control" port on the rear rack termination panel. (fig 6)

Note. *The maximum cable length for RS 232 is 5 meters (16 feet) so the panel needs to be located in close proximity to the rack.*

Apply power to the panel and wait for the panel booting process to complete. The default configuration settings for the RCT 5000 panel should now establish the connection with the R CT 5020 and the system should function normally.

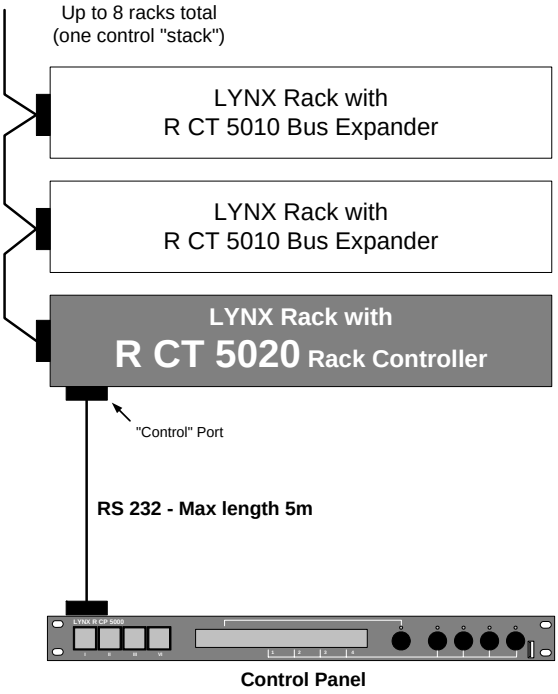
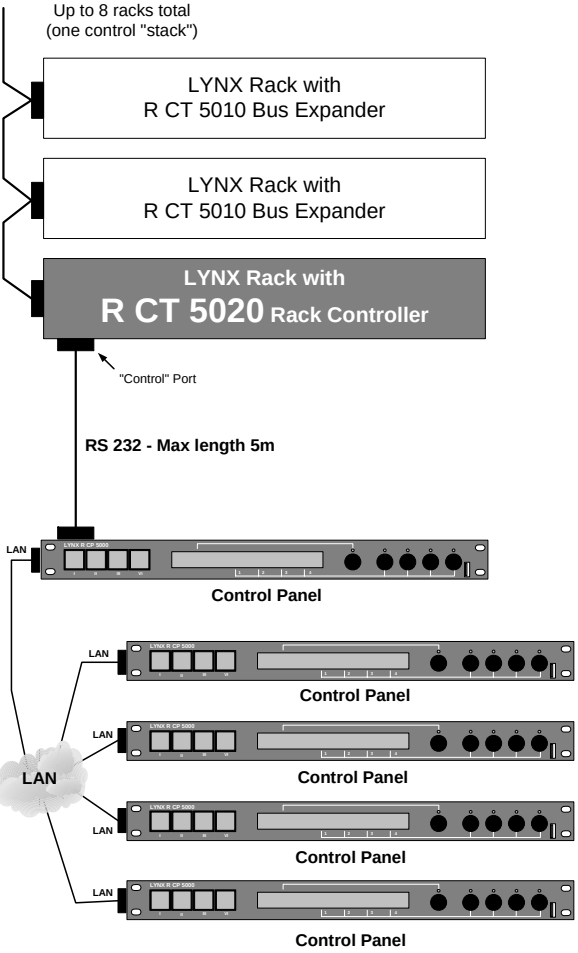


Fig 6. Installation Example 1

Adding More Panels

It is possible to add up to 4 more panels to this system (for 5 total), This is done by using the LAN connection on the panels and networking them together. (fig 7) There is no length restriction on LAN connections so the additional panels can be located anywhere.

In multiple panel installations any changes made to a modules settings using one panel is replicated in all others.



Note: The panels will require configuration before they can be networked using the LAN connection. Please refer to the ***Panel Configuration*** section for details on how to configure the control panels for network connectivity. (All require unique IP addresses)

Scenario 2

Small system (1 to 8 racks) with an existing PC based LYNX control system installed.

If you currently have a small system (1 to 8 racks) using the C3_local PC client then you probably already have the R CT 5020 Rack controller and some R CT 5010 bus expanders in your system. *(If the connection between the PC client and the RCT5020 is RS 232 (and not LAN) then you are using the R CT 5020 Rack Controller)*

To use the RCP5000 control panel and the C3_local PC client at the same time then the control panel needs to occupy the RS 232 port currently taken up by the PC.

The RCP5000 is now connected directly to the "control" port on the rack with the R CT 5020 and the PC is connected into the RCP5000 control panel via the LAN connection (fig 8)

The PC C3_local client will need to be reconfigured for LAN use which is covered on page 17.

Adding Additional Panels.
Additional panels can also be connected in this scenario, and these are simply connected into the LAN network. Up to five connections are supported.

Note: The panels will require configuration before they can be networked using the LAN connection. Please refer to the ***Panel Configuration*** section for details on how to configure the control panels for network connectivity.

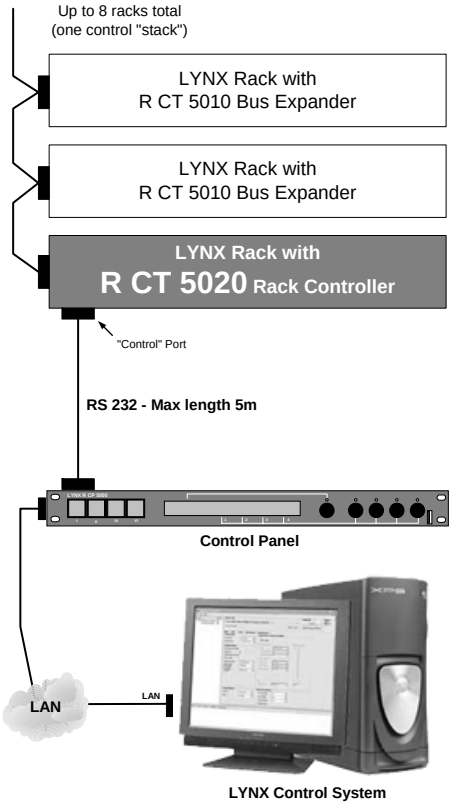


Fig 8. Installation Example 2

Parallel Operation.
As the control devices have parallel access to the system, any changes made in the PC C3_local GUI are instantly updated in the panels – and likewise any changes made on the panels is immediately updated in the PC client display. No device has priority.

Note. The panel with the serial connection to the RCT 5020 must remain powered up. Removing power from the panel will disconnect any other

control devices networked into the panel. Loss of this connection will not adversely effect the normal operation of the LYNX modules. These will continue to function as normal with the last stored settings prior to the connection being lost.

Reconfiguring the LYNX PC Client for LAN Connectivity.

As discussed previously it's necessary to re-configure the existing C3_local PC client to use LAN connectivity to use both devices simultaneously.

Please follow the steps below.

1. With the panel now connected to the R CT 5020 controller in place of the PC system confirm operation of the panel.

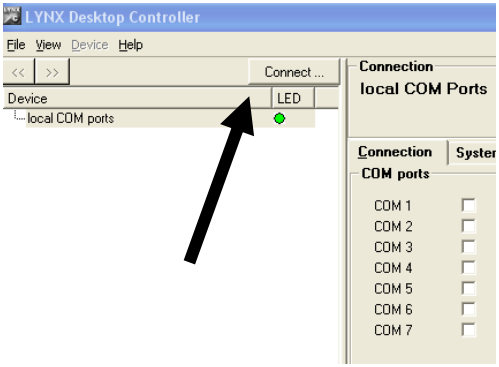
2. Ensure you have an available and operational LAN connection on the host PC. Connect the PC and the panel into the network.

3. Now is a good time to download and install the latest update for the LYNX control system. Please go to the following ftp site to download the latest release:

   ftp://lynx-technik.com/c3_local/

4. When the new version is installed start the application as usual and wait for it to boot.

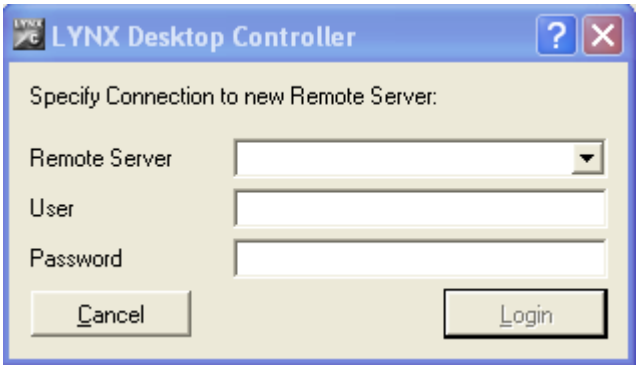
5. Click on the "connect" button above the folder navigation bar (fig .9)



Fi 9. Connect button location

6. Please enter the following information into the "connect" dialog (fig.10) to establish the connection to the panel. **Note**. These are default values assuming they have not been changed, if you have then please enter the values you configured.

   Remoter Server : **192.168.1.161**
   User name: **ctrl**
   Password: **lynx$ctrl**



7. The connection should now be made to the panel and the folder tree should fill with the connected racks and modules. If a connection cannot be made then please check the

network connections and confirm the IP address, username and password for the RCP5000 by reviewing the ***Panel Configuration*** section.

If there are still connection problems and the PC and Control panel(s) are connected through a house network there could be a conflict in IP addresses. Try making a direct LAN connection between the PC and panel to confirm this and then obtain valid IP addresses from your network administrator. Refer to the ***Panel Configuration*** section to enter new IP addresses. Also check the firewall settings between any c3_local clients and RCT 5030 and R CP 5000 panels this could also be blocking communications.

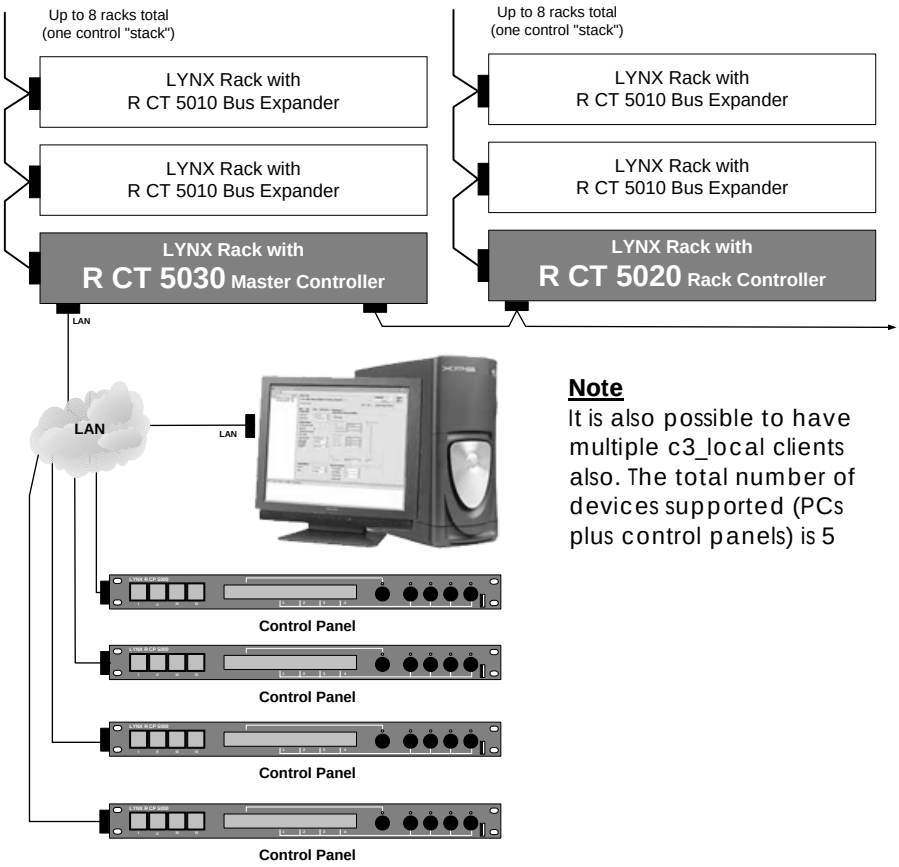
Scenario 3

Large (or small) system using the RCT5030 Master Controller.

The R CT 5030 Master Controller provides network connectivity into LYNX racks. While the Master Controller is normally used for larger installations it can also be used for any system (down to a single rack in size) which requires there is no restriction on the distance between the system and the control panel. Integration of any existing LAN connected C3_local PC clients is also possible.

All devices are connected into the network. (fig11). The system will support 5 connected devices.

Note: The Panel(s) and RCT 5030 will require unique IP addresses before they can use the LAN connection. Please refer to the ***Panel Configuration*** section for details.



Note

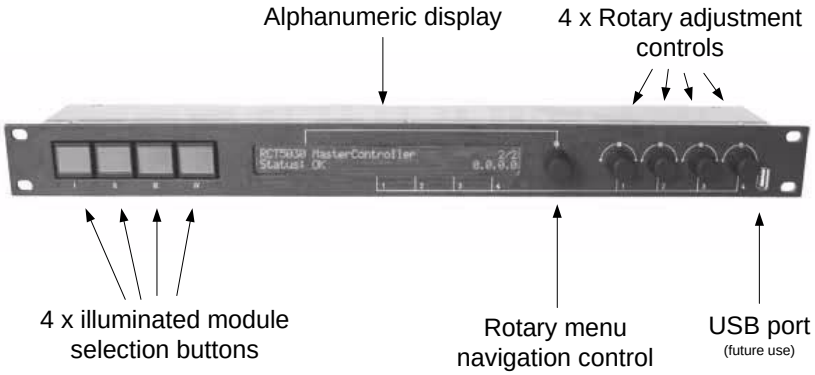
It is also possible to have multiple c3_local clients also. The total number of devices supported (PCs plus control panels) is 5

Fig 11. Installation Example 3

Panel Operation

Controls

The panel layout can be seen below:



Illuminated Module Selection Buttons.

This is a set of 4 multicolor pushbuttons which can be user assigned to any device to provide fast access to adjusments and convenient status monitoring. The device name is clearly displayed in the button alphanumeric display and the color corresponds to the module alarm condition LED (Green, Yellow or Red)

To assign a device to a button manually navigate to the device using the navigation control and then press and hold the desired button for a few seconds, the button will then be assigned to this device. Pushing this button will now switch the control panel directly to this device. To clear the button assignment press and hold down for a few seconds until the button is no longer illuminated.

Rotary Navigation Control

This control is a rotary digi-pot as well as pushbutton. There is a multicolor LED above this control which shows when it is active and also indicates the selected module alarm status. This control is used to navigate the display through the various devices connected to the control system. Operation is simple:

Rotating left and right will scroll through available selections in this level

Pressing the control will jump up and down between the two available levels.

For example: Use the left and right rotary control to navigate to a connected module using the display. Pressing the control will drop you down one level into the module settings. Turning the rotary control left and right will navigate through the available settings for this module in this level. Pressing the control once more will lift you back up to the main level.

Rotary Module Adjustment Controls

There are 4 rotary digi-pots provided for module adjustments. The function and assignment of these controls is controlled by software depending on the device currently selected. Digi-pots which are assigned to a particular function will have the LED illuminated green above the assigned control.

Rotating the knob left or right will increase or decrease the particular value. If it is a switch function this can be toggled by turning the digi-pot or pressing the knob. (numerical variables like gain etc can be reset back to factory default by

pressing and holding the digi pot for a couple of seconds).

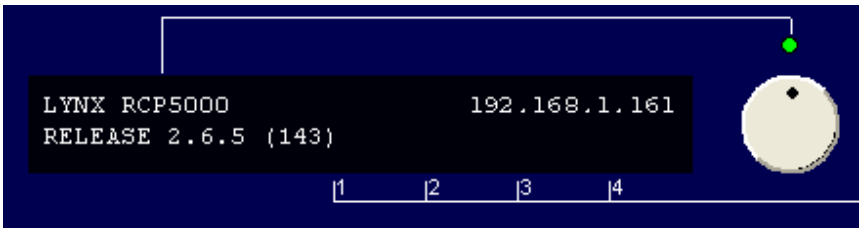
Panel Display

The panel has a two line 40 character alpha-numeric display which is used to display module settings / status / alarms and connections. The function of the display is determined by software and selected function.

The examples below show some of the typical displays used on the panel with a brief description of each

Root Display

After the panel has successfully booted the panel root display will look something like this:



The “release” number is referring to the panel software version number, in this case 2.6.5 and (143) is the build number. Naturally, these numbers can be different depending on the software revision installed the panel. For reference the panel IP address is shown in the top right hand corner.

Note. Software updates can be uploaded into the panel when necessary. Please refer to the ***Panel Configuration*** section for details on software updates.

Server Connections

Rotating the navigation control will now allow navigation through all devices the panel is connected to. When you reach the Panel Connections display it will look similar to what's shown below.

(The LED will illuminate above any rotary control which is available for adjustments)

In this case it is showing the connected device is called RS232 – and its showing the connection is active.

Note. The connection displayed on will be either "RS 232" or an IP address.

RS 232 as a device server signifies the RCP 5000 Serial connection to a LYNX rack.

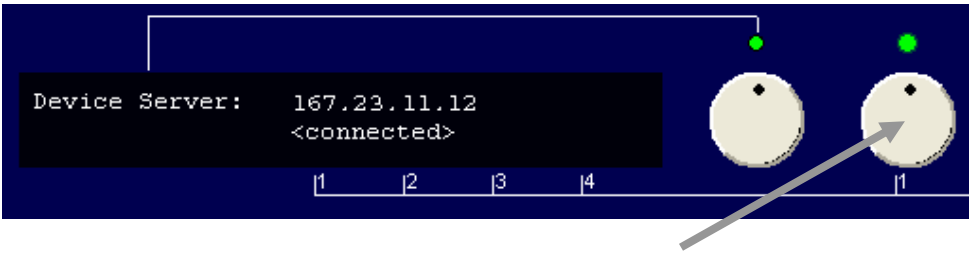
An **IP Address** shown as the device server signifies a network connection through the RCP 5000 LAN port.

If you continue to rotate the navigation control you will scroll through all the connected devices under this particular server connection.

Change Server Connections.

It's possible for the panel to have multiple server connections operating in parallel. There is a basic hierarchy involved with the server connections. Once a connection is displayed then this signifies the server layer which is active on the panel. Continuing to rotate the navigation control will take you through all devices connected and available through this connection.

To change the server connection firstly navigate to the current connection and look for the LED above the next rotary control to be illuminated (See below) This indicates there are more server connections to the panel available. Rotating this second control will allow you to scroll through the available server connections.



Use this control to scroll through and select connections

Now operating the regular navigation control will scroll through all devices available on this connection layer.

Rack Connections

Rack controllers are “devices” which can be also be displayed. When rotating the navigation control it’s possible to see all the various rack controllers which are mixed in with the modules on a single layer. The display below is typical for a rack controller

In this case the controller (or rack) has been named **“D/A Conversion”**, under the device name the alarm condition is displayed with the error message (if applicable) in the case status is OK.

The **RS232: 7.1.3.0** portion of the display is the connection and physical location of the device in the system - structured as follows;

<server>:<SerPort>.<Stack>.<Frame>.<Slot>

The **66/75** above this is referring to the device selected from the total number of devices available (page number) in this case its number 66 of 75 devices

The page number, server ID and location are displayed in the same place for all connected devices.

Module Connections

When a module is reached using the navigation control the top level display will look similar to this (depending on the module)

In this example the module has also been assigned to the pushbutton to the left of the display (which is done by simply pressing and holding the button down for a couple of seconds)

This module has an alarm condition. The pushbutton and rotary control LED are both red (which cannot be seen in this image)

The module type and name is at the top (if a c3_local client is also connected then any re-naming is reflected on the panel and pushbutton also)

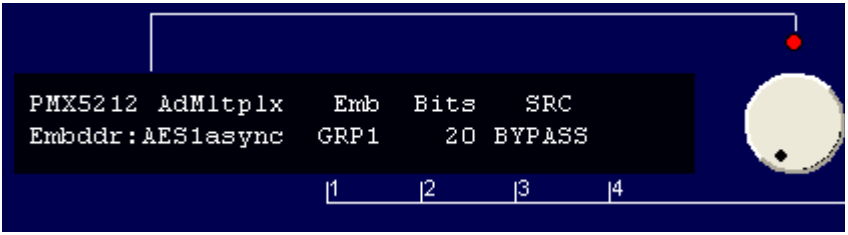
Under the name you can see the module error condition is reported:

Embedder: AES 1 async

In this case indicating the AES input is asynchronous

The alarm condition is also shown in the pushbutton indicating there is a problem with the AES inputs.

Pressing the navigation control will now drop you down into the specific module settings and rotating the navigation control will scroll through the available settings (which depends on the module) here is a typical page:



Note. It is beyond the scope of this manual to document every module and all the possible settings so this device will be used as an example to show function.

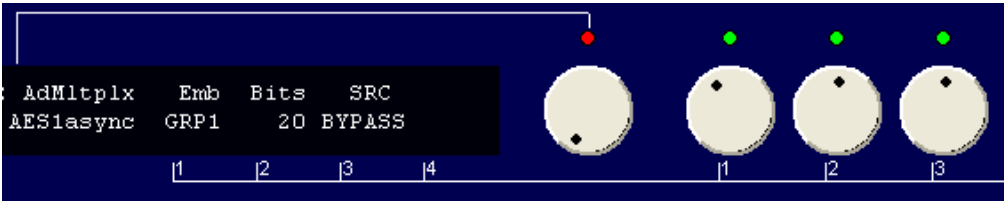
You can see three of the settings available, to see more settings rotate the navigation control.

Emb
GRP1
This is used to select the group you want to embed the audio into.

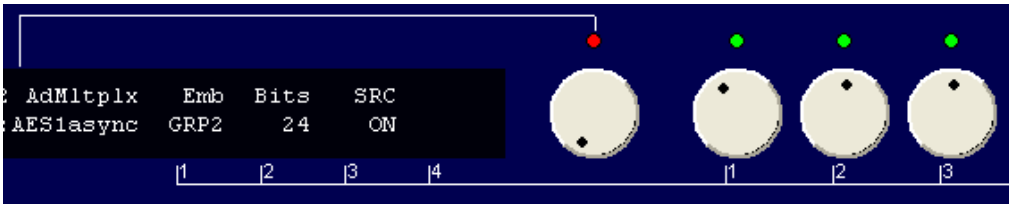
Bits
20
Used to select 20 or 24 bit operation

SRC
Bypass
Switch bypass on or off for the sample rate converters

These controls are routed to the four rotary knobs to the left of the display and the LED above each control shows which controls are been assigned.



To change settings simply rotate the applicable control (or you can also press for switch functions) example below shows some changes:



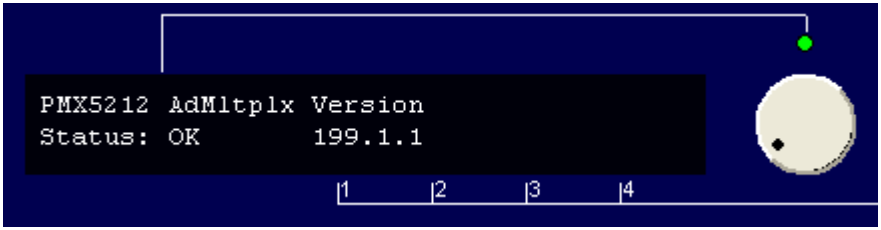
When adjustments have been completed then pressing the navigation button once more will move you up to the main level for navigation to additional devices.

All changed module settings are stored automatically in the module flash ram.

Note. Holding the navigation button down for a couple of seconds will return you to the display root.

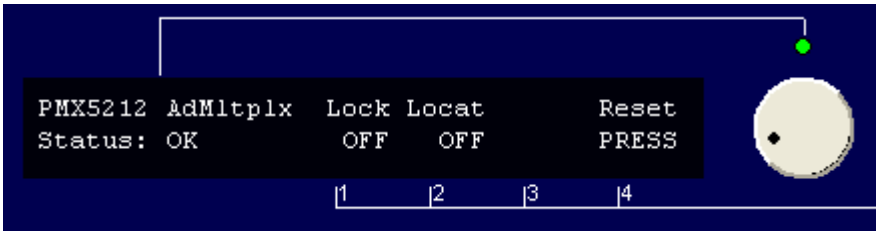
Common Functions

There are some common functions for all connected modules which will be found if you continue to rotate the navigation control while in the module adjustment layer. These can be seen below



There is a version number displayed for each device, this is referring to the firmware revision inside the module itself.

We also have the ability to turn on the module locate function, lock the module from further adjustments and also reset the module factory defaults. See below:



These parameters can be switched by the assigned rotary controls (not shown here). Function is described below

LOCK ON/OFF
Setting this to ON will lock the settings for this particular module against accidental adjustment. This is a simple switch function and is not protected by a password and is only designed for protection against accidental changes.

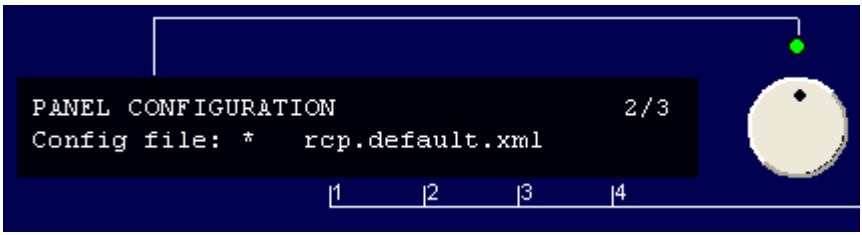
Note. If using a c3_local client in parallel then the settings are not locked in the software client. This is only a RCP panel lock and will lock the module on all connected RCP 5000 panels.

Locat ON/OFF
This switches the module locate function ON or OFF and is useful for physically locating a device in a large system. When switched on it will continuously flash all available module LED`s yellow (also any replicated module panel alarms on any assigned panel pushbuttons and LED`s)

Reset PRESS
This is used to restore the module back to factory preset conditions. **NOTE** using this function will overwrite the modules current configuration settings and cannot be undone. There is some protection in that to activate the reset the control has to be pressed and held down for a few seconds until the display changes from "***Reset PRESS***" to "***Reset DONE***".

Basic Configuration Settings

Changes to basic panel configuration settings can be made from the panel display. When in the root display press and hold the navigation button for a couple of seconds to enter the configuration menu. You should see something like this:



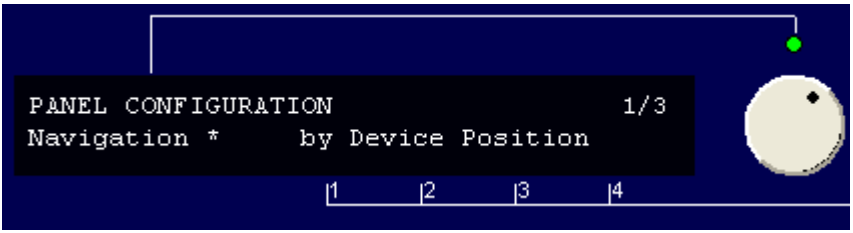
There are three pages which can be scrolled through using the navigation control. Changes are made using the assigned rotary controls (not shown above). The asterisk next to the config file signifies the current selection. Using the assigned rotary control change the setting and then press to commit the change (the asterisk will appear). When all changes have been made pressing the navigation control will return you to the root display.

Config file setting (shown above)

This will scroll through all the xml panel configuration files currently loaded in the panel. (note XML files are supplied by LYNX and loaded via the web interface)

Navigation (Device Listing Order)

This changes the order in which the devices are listed when scrolling though the available devices using the navigation control.



Available setting are :

By Device Position – This is a logical representation based upon the physical location in the system which will group devices by the physical stack / rack / position order.

By Device Name – All the devices are alphabetically sorted based on the assigned device name

Display Brightness

This is used to set the panel display brightness to one of four possible settings [0...3]

Panel Configuration

Introduction

The R CP 5000 is a flexible device which can be used a number of ways depending on the installation and connectivity requirements. There are number of parameters which need to be configured correctly (depending on the application) for the panel to function correctly.

Web Interface

Access to panel configuration is done through a browser. Connect your PC to the LAN connection on the rear of the panel and point your browser at the following (default) panel IP address:

http://192.168.1.161

Note: If you had previously changed the panel IP address this will not work. Check the panel IP address setting by referring to the root display.

When connected you will see the screen shown in fig 13.

Panel Configuration Login

There are default user and admin logins these are shown below. **Note** if you have replaced the default user names and passwords then these logins will not work.

Default User login name : **ctrl**
Default User password : **lynx$ctrl**

Default Admin login name : **admin**
Default Admin password : **lynx$admin**

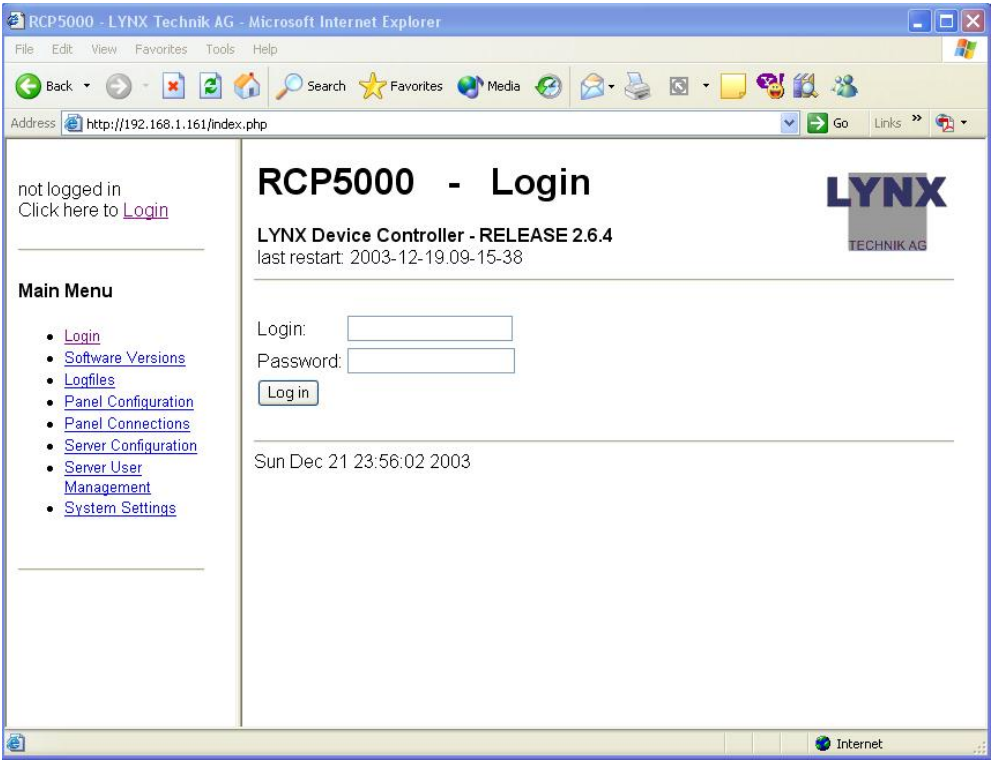


Fig 13. Web interface login screen

Login as the administrator to make changes.
Username **admin** password **lynx$admin**

You can see the links to the various configuration screens in the left hand margin.

Software Updates

This is where you can verify the software version installed in the RCP and also upload new releases of the software. Download the latest release of the RCP software from our ftp site:

ftp://lynx-technik.com/embedded/

Store the file on your local disk and the "*browse*" function to point to the downloaded file and then click "*install*".

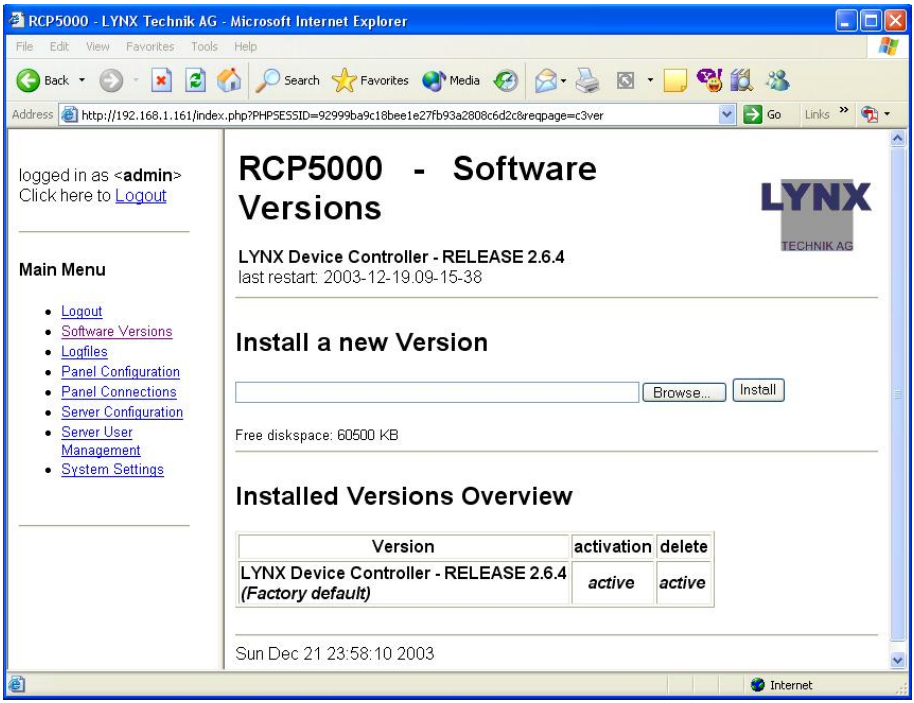


Fig 14. Software Versions Screen

Logfiles

The panel maintains its own internal logfile which is useful for diagnostics; This file may be asked for by LYNX Technical support if you are experiencing problems. This is accessed by clicking on the “logfiles” link.

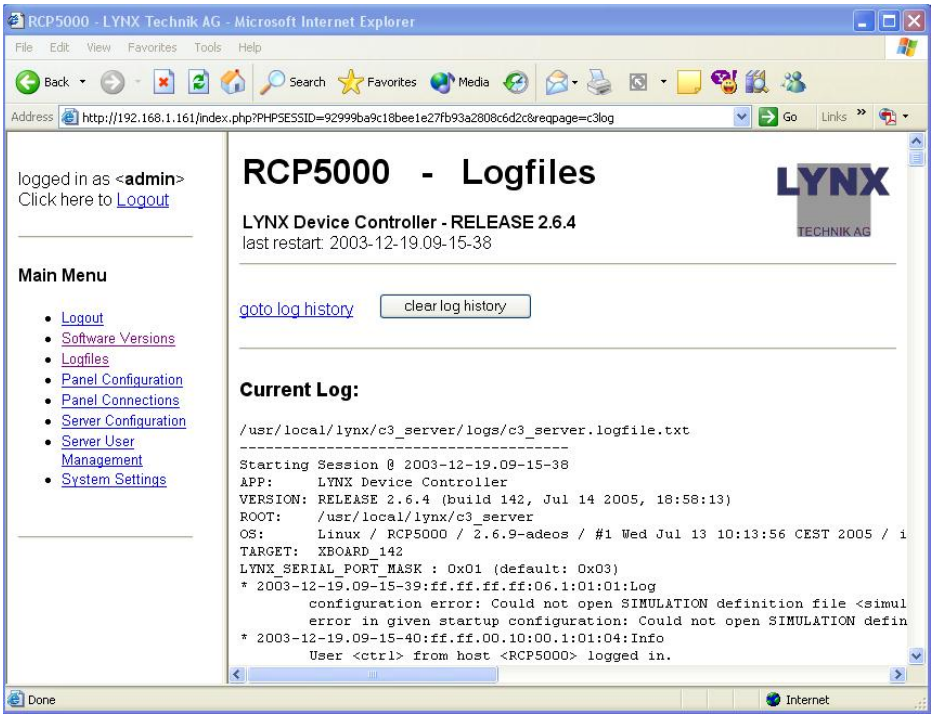


Fig 15. Logfiles Screen

Panel Configurations (XML)

The panels are configured for use with xml configuration files. These files are supplied by LYNX and below shows where the files are uploaded.

XML files allow us to easy customize the panels for specific installations and customer requirements. At this time it's not recommended for users to attempt to create and load their own files.

(XML files are selected using the panel display - see ***Basic Panel Configuration Settings*** section)

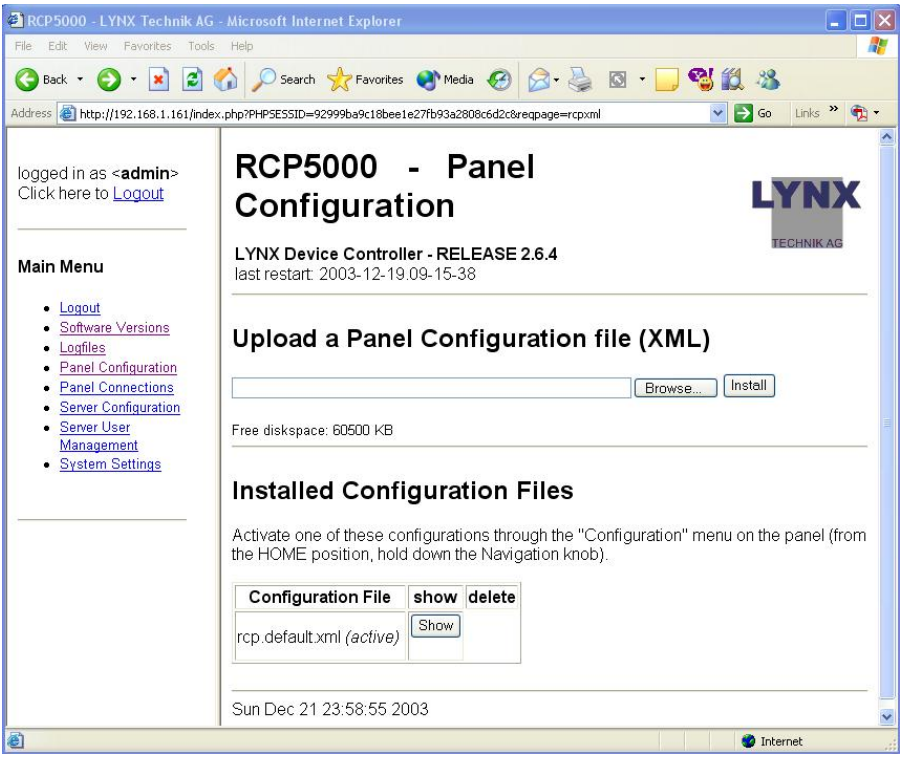


Fig 16. Panel Configuration Screen

Panel Connections

This is where we setup for external devices (clients) to connect to the panel (server) (Fig 17). The first two entries shown are defaults and we recommend you leave these unchanged.

The RS 232 server connection is used for the panel to connect to a LYNX rack with a RCT 5020 controller and we recommend you leave this entry unchanged.

The second entry for 192.168.1.160 is set for the panel to connect to the default IP address of LYNX RCT 5030 controllers and again we recommend this is left unchanged.

For typical single RCP panel installations no changes are needed to these settings, the panels can be plugged into the RCT 5020 Controller using the RS232 interface or into the RCT5030 controller network and they will function with the factory defined default IP addresses, user names and passwords.

Make changes here if :

1. You will be connecting the panel to a LYNX rack using a R CT 5030 controller for which you previously changed the R CT 5030 IP address. Modify the default entry, or add a new connection with the new IP address. We recommend you use the default user name and password for new connections.
   User name = **ctrl** password = **lynx$ctrl**

Note. If more than one RCP is to be used on the system then additional RCPs must have unique IP addresses (see System Settings in this section).

The panel basically functions as a server, and may have multiple simultaneous connections; the server will continuously scan for valid connections and connect automatically when a device is present and has the correct user name and password. Multiple logins with the same username and password are permitted (but total number of simultaneous connections is limited to 5). We recommend you keep the default user name **ctrl** and default password **lynx$ctrl** for simplicity. Username and password changes made here need to also be made in all connected clients.

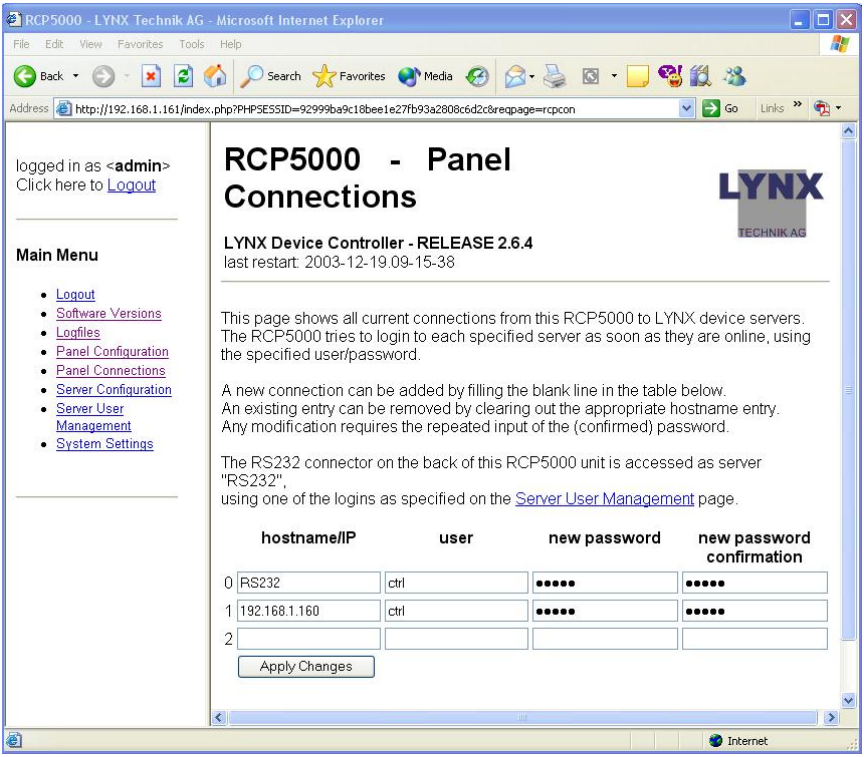
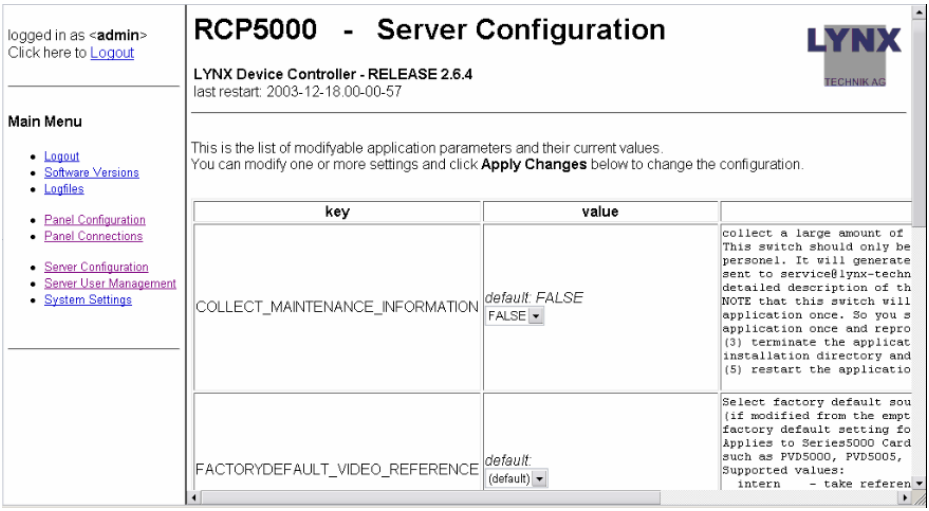


Fig 17. Panel Connections Screen

Server Configurations

This is where certain panel settings are configured, and is accessed by clicking the “Server Configurations” link as the content itself is quite long it cannot be shown with a screen capture – When this link is open scroll down to see all the possible configuration settings. On screen descriptions are provided to describe function and use.



Server User Management

If you wish to add more user accounts to the panel then it is done here. (fig.18) you can also modify the existing default admin and ctrl accounts if you wish (although we recommend you leave these with the default passwords). Defaults are:

Name: **admin** password: **lynx$admin**
Name: **ctrl** password: **lynx$ctrl**

Note. All panels and software clients which connect to this panel need to have their usernames and passwords changed to match the new settings or they will not be able to connect.

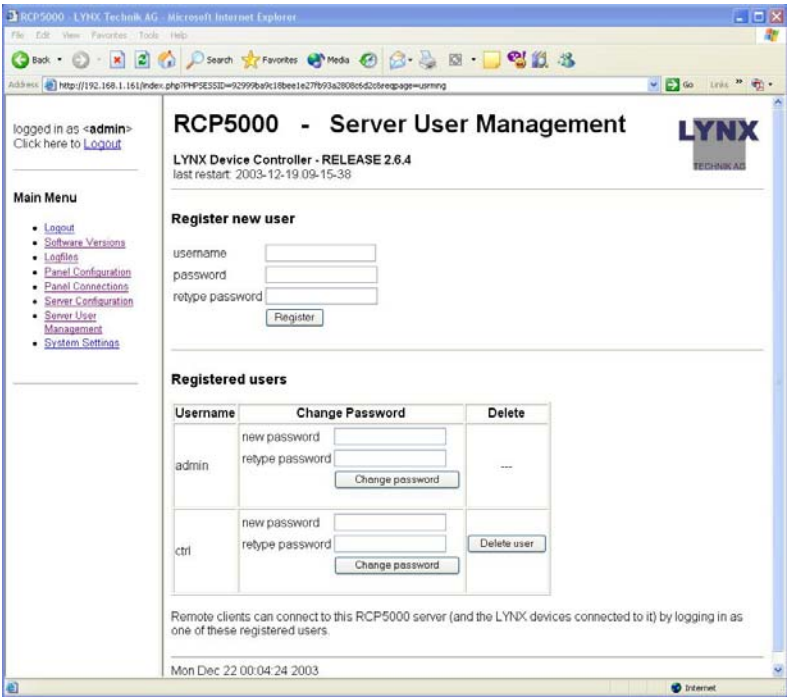


Fig 18. Server User Management Screen

System Settings

This is where the network settings are made for the panel. (fig 19). Typically the only change you will make is to the IP address field, entering in a unique IP address for the panel in multiple panel installations. The other settings can be left unchanged.

Generally, when connected to a house network when defining IP addresses and making any changes to the other network settings it is highly recommended you speak with your network administrator first to avoid any potential problems or conflicts.

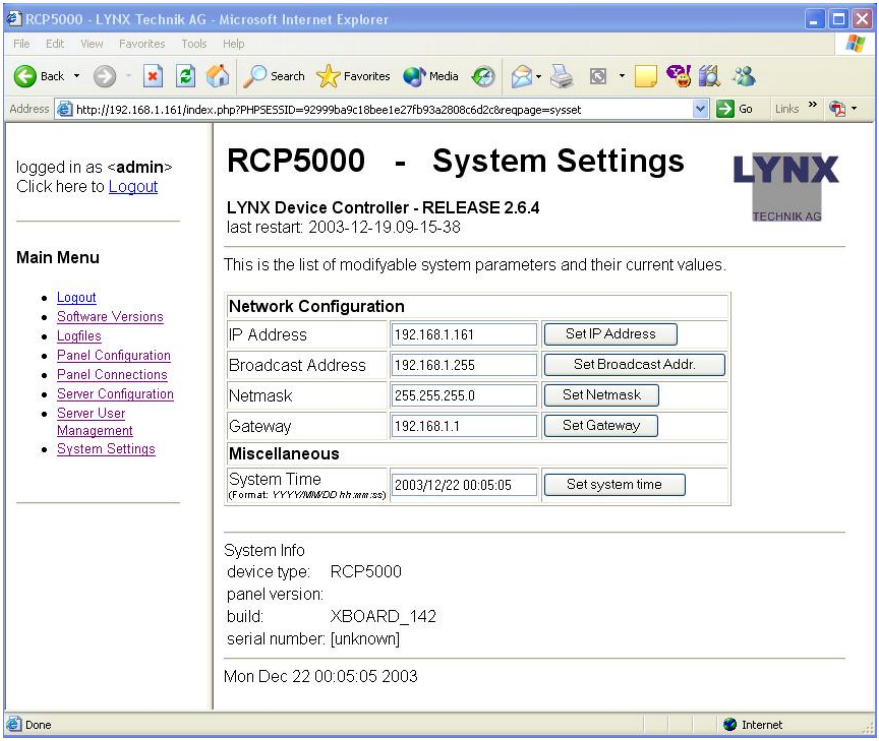


Fig 19. System Settings

Reset Control Panel

There may be instances where the admin password was changed and are now forgotten in which case the only way to regain control of the panel is to restore the factory defaults.

Using a standard PC with any terminal application connect a RS 232 cable from the PC to the RS 232 connection on the rear of the panel.

PC serial port configuration:

Speed:	**38400**
Bits:	**8**
Parity:	**none**
Stoppbits:	**1**
FlowControl:	**Off**

When connected you will see fast moving data scrolling through terminal screen as the panel scans for connected devices. Hold down the asterisk (*) key for a few seconds to halt this and then you will see a command prompt. Here is a list of the available commands at this prompt:

resetPW - reset password of user <admin> to factory default
resetIP - reset IP-address to factory default
setIP <IP> - set IP-address to <IP>
getIP - return current IP-address
remoteIF - overlay this terminal with LYNX remote-interface (return by EXIT)
help - print this help page

Type the command you want and hit RETURN. (Typically "**resetPW**" which will reset the admin password to **lynx$admin**)

Specifications *(R CP 5000)*

Controls

Push Button	4 LCD matrix ASCI display push buttons. Red / Green / Blue
Rotary	5 x incremental digital rotary controls with push to select function.

Display / LEDs

Matrix Display	2 line 40 character Blue LED alphanumeric display
LEDs	Multicolor selection LEDS provided above each rotary control

Connections

Serial	9 Pin Male SubD RS 232 connector
LAN	RJ 45 connector 100 baseT
USB	Front and Rear connection reserved for future use)
DC Power	5 – pin twist lock Bayonet connector for connection of external DC power supply (R PS 3001)

Electrical Specifications

Operating Voltage	+5 VDC
Power Consumption	<10W
Safety	IEC 60950/ EN 60950/VDE 0805

Mechanical

Size	Standard 19”rack mount x 1 RU high x 157mm deep
Weight	2 Kg

Ambient

Temperature	5°C to 40°C Maintaining specifications
Humidity	Max 90% non condensing

Supplied Accessories

Documentation	R CP 5000 Reference Manual

Service

If you are experiencing problems, or have questions concerning your R CP 5000 Control Panel please contact your local distributor for assistance, or check the LYNX website:

www.lynx-technik.com

and look under FAQ (frequently asked questions).

The website also provides an online form to contact LYNX technical support directly to answer specific questions and help solve problems.

Note.

Please check frequently for software updates and download and install the latest release. In many cases this will solve the problem if it's something we have previously identified and subsequently fixed.

Software updates can be freely downloaded from

ftp://lynx-technik.com

Contact Information

Please contact your local distributor; this is your local and fastest method for obtaining support and sales information.

LYNX Technik Headquarters can be contacted using the information below.

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Phone	+ 49 (0) 6150 1817 0
Fax	+ 49 (0) 6150 1817 10
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LYNX Technik manufactures a complete range of high quality modular products for broadcast and Professional markets, please contact your local representative or visit our web site for more product information.

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Notes