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# RPC 35, 36 QUICK START

by Bay Technical Associates

The RPC 36 supports serial one EIA232 connection. Configure the EIA232 using a serial port connection with the user's computer.

## INSTALLATION

### UNPACKING

Compare the unit and serial number of the equipment you received to the packing slip located on the outside of the box. Log this information. Inspect equipment carefully for damage that may have occurred in shipment. If there is damage to the equipment or if materials are missing, contact BayTech technical support at 228-467-8231 or call toll free inside the United States at 800-523-2702. At a minimum, you should receive the following:

- a.  The RPC unit.
- b.  1 ea. DE-9 (9 pin) PC com port adapter -- 9FRJ45PC-1.
- c.  1 ea. RJ-45 cross over cable -- RJ08X007.

**NOTE:** Keep the shipping container and packing material in the event future shipment is required.

### PREPARING THE INSTALLATION SITE

The installation area should be clean and free of extreme temperatures and humidity. Allow sufficient space behind the RPC unit for cabling and receptacle connections. Access to installation site should be restricted to authorized personnel.

### POWER

**CAUTION:** This unit is intended for indoor use only. Do not install near water or expose this unit to moisture. To prevent heat buildup, do not coil the power cords when in use. Do not use extension cords. Do not attempt to make any internal changes to the power source. Do not attempt to modify any portion or component of an RPC Series Unit unless specifically directed to. BayTech must perform any internal operations.

**CAUTION:** High-voltage surges and spikes can damage this equipment. To protect from such power surges and spikes, this unit must have a good earth ground. There is an earth ground connection next to the input terminal blocks.

**CAUTION:** Before removing or replacing any cables or power cords, turn off main power switch located on the RPC Series Unit. Communication to the unit will be disrupted while power is off.

**CAUTION:** Do not exceed the DC current rating for the selected model. (See Appendix A “SPECIFICATIONS” for each RPC model).

**CAUTION:** Although the power switch is turned OFF, the unit is not totally isolated from the power supply(battery). In order to be isolated, the feeding power cords must be detached from the unit.

**CAUTION:** For PERMANENTLY CONNECTED EQUIPMENT, a readily accessible 2-pole disconnect device shall be incorporated in the fixed wiring. For PLUGGABLE EQUIPMENT, the socket-outlet shall be installed near the equipment and easily accessible.

Applying power illuminates a green LED on the front panel of the RPC. When the power switch is off, devices connected to the unit are not receiving power.

## EIA-232 Serial Setup

- Connect the *9FRJ45PC-1* adapter to the user’s computer
- Connect the RPC’s EIA-232 port to the adapter via the *RJ08X007* rolled flat ribbon cable.
- Use terminal emulation software to access the unit.<sup>1</sup>

## Status Menu

The following menu will appear when you log on:

```
DC RPC Series
(C) 2000 by BayTech
F0.11
```

```
Option(s) Installed:
Internal Temperature
```

```
Internal Temperature: 21.0 C
```

```
Output fuses A: Good      Output fuses B: Good
```

```
1)...Output A1 : Off      2)...Output A2 : Off
3)...Output A3 : Off      4)...Output A4 : Off
5)...Output A5 : Off      6)...Output A6 : Off
7)...Output A7 : Off      8)...Output A8 : Off
9)...Output A9 : Off      10)...Output A10 : Off
11)...Output B1 : Off     12)...Output B2 : Off
13)...Output B3 : Off     14)...Output B4 : Off
15)...Output B5 : Off     16)...Output B6 : Off
17)...Output B7 : Off     18)...Output B8 : Off
19)...Output B9 : Off     20)...Output B10 : Off
```

```
Type "Help" for a list of commands
```

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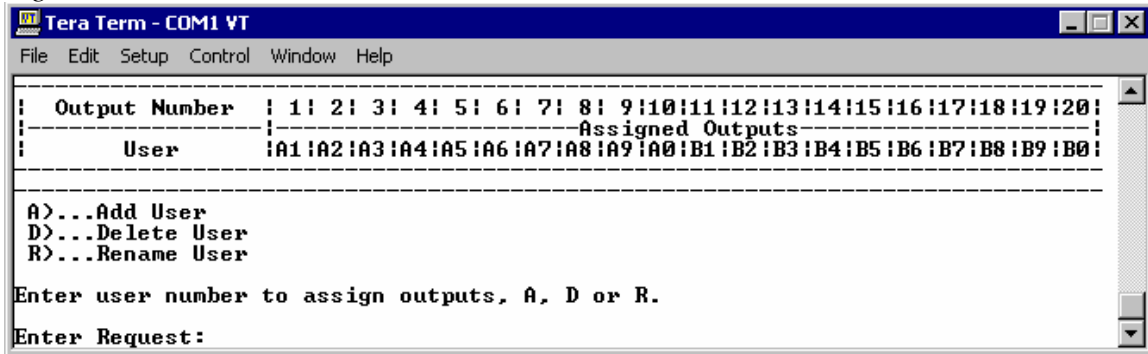
<sup>1</sup> Windows HyperTerminal set to 9600, 8, none, 1 this manual uses Tera Term found at <http://hp.vector.co.jp/authors/VA002416/tterm23.zip>.

Type *config*, <cr>, and the user will be taken to the configuration menu:

```
Unit ID: BT RPC 36
1)...Manage Users
2)...Change Outlet Name
3)...Enable/Disable Confirmation
4)...Enable/Disable Status Menu
5)...Change Unit ID
6)...Change Alarm Threshold
X)...Exit
Enter Request:
```

Enter 1 followed by a <cr> to enter the manage users menu:

Figure G.2



- Usernames are applied to the Power controller
- Up to 19 users plus an administrator allowed
- Usernames
  - case sensitive,
  - must be less than nine printable characters
  - must be alphanumeric

At the *Manage Users* menu (Figure G.2) prompt select “a”, <cr> to add a user.

Enter the username you wish to use, followed by a <cr>.

The first user added will be the administrator by default, the administrator can:

- change any user’s outlet access
- manage the amount of users
- manage/change the names of users.

**Outlet Control<sup>2</sup>:** At the “Manage Users” menu select the number associated with the given user. And then select whether to:

```
1)...Add Outlet(s)
2)...Remove Outlet(s)
3)...Add All Outlets
4)...Remove All Outlets
Enter Request:
```

**Password Control<sup>3</sup>:** Press three consecutive <cr> to reach the *RPC-36*> prompt.

Type *password*:

- “Enter new Password,” <cr>
- “Re-Enter new Password,” <cr>. Your password is now set for the current user.

<sup>2</sup> Any new user (including the administrator) is defaulted to have no control over any outlets. Therefore the administrator must setup the amount of control that the user needs.

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## Access Menu

To interface with the “Access Menu” press the attention character five consecutive times.

```
Access Menu:
Outlet Operations.....1
Network Interface Module Login....2
Disconnect.....X, CR
Enter request:
```

### Network Interface Module Login/Menu<sup>4</sup>: Select 2, <cr>

```
Power Control.....1
Configure.....2
Status.....3
Unit Reset.....4
Logout.....5
Enter Request:
```

### Configure: Select 2, <cr>

```
Copyright(C) Bay Technical Associates 2001
RPC Network Interface Module
Revision F.1.00V   Kernel K.1.00J
Core C.1.00H   Hardware H.1.00
Status.....1
Serial Port Configuration.....2
Port Device Name.....3
Attention Character.....4
Login Setup.....5
SNMP Configuration.....6
Network Port Configuration.....7
Unit ID.....8
Upgrade Firmware.....9
Active Restore.....10
RPC Management.....11
Exit.....X, CR
Enter Request:
```

### Login Setup: Select 5, <cr>

```
Header.....1
Access Control.....2
Change User Name.....3
Change Password.....4
Exit.....X, CR
Enter Request:
```

- Access Control: Enter 2, <cr>. You will be given four options:

```
Network access:
  1)...Prompt for user name: disabled
  2)...Prompt for password: disabled
Serial Port Access:
  3)...Prompt for user name: disabled
  4)...Prompt for password: disabled
Enter option>
```

- Select the option you wish to enable followed by a <cr>. Enter “Y” for Enable, “N” to Disable, and press a <cr>. Repeat procedure until you have the desired level of access.

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<sup>4</sup> Once this menu is accessed, 5 consecutive attention characters will bring you back to this menu until the user logs off.

- Changing the User Name (select 5, <cr>) and the Password (select 6, <cr>) will set the quantities for the lone user allowed to gain access to the Network Controller.

**SNMP Configuration:** Enter 6, <cr>

```

SNMP Trap Host 1 Address.....1
SNMP Trap Host 2 Address.....2
SNMP Trap Host 3 Address.....3
SNMP Trap Host 4 Address.....4
SNMP Read-Only Community.....5
SNMP Read-Write Community.....6
SNMP Enable.....7
Exit.....X,CR
Enter Request:

```

- Select 7, <cr>. When prompted enter “Y”, <cr>
- Select a SNMP trap host IP address of the host you wish to view the traps
- Press enter twice, select “Y” at the accept changes prompt and press enter

**Network Configuration:** Select 7, <cr>

```

Network Configuration

IP Address:                0.0.0.0
Subnet Mask:               0.0.0.0
Gateway:                   0.0.0.0
Ethernet Address:         00.C0.48.03.64.0E
Connection Inactivity Timeout (mins): Disabled
Carriage Return Translation: Disabled
Break Length (msecs):     350
DHCP is Disabled   Bootp is Enabled   Telnet is Enabled

```

```

IP Address.....1
Subnet Mask.....2
Gateway Address.....3
Inactivity Timeout.....4
Carriage Return Translation.....5
Break Length.....6
Bootp.....7
DHCP.....8
Telnet.....9
Exit.....X, CR

```

Enter Request :

- Bootp Network Configuration: select “7”, <cr>
  - You will be prompted to “Enable ? (Y/N), CR for no change)”
  - Select “Y”, <cr> to Enable, or “N”, <cr> to Disable
  - Disable Bootp
- DHCP Network Configuration: Select “8”, <cr>
  - You will be prompted to “Enable? (Y/N), CR for no change)”
  - Select “Y”, <cr> to Enable, or “N”, <cr> to Disable
  - Disable DHCP
- Static Network Configuration:
  - Disable Bootp and DHCP
  - Select “1”, <cr>
  - You will be prompted to “Enter IP Address in dotted decimal form:” Enter IP, <cr>
  - Select “2”, <cr>

- 
- You will be prompted to “Enter Subnet Mask in dotted decimal form:” Enter IP, <cr>
  - Select “3”, <cr>
  - You will be prompted to “Enter Gateway in dotted decimal form:” Enter IP, <cr>
  - When configuration is complete, press <cr>, <cr>
  - You will be prompted to “Accept Changes? (Y/N)”
  - Select “Y”, <cr> to accept changes, or “N”, <cr> to deny changes

## Help

To view the basic commands for the RPC 36 type “help”, <cr> at the RPC-36> prompt, this will access the help menu:

```
RPC-36>help
```

```
On n <cr>           --Turn on an Outlet, n=0,1...8,all
Off n <cr>          --Turn off an Outlet, n=0,1...8,all
Reboot n <cr>       --Reboot an Outlet, n=0,1...8,all
Status <cr>         --RPC-3 Status
Config <cr>         --Enter configuration mode
Lock n <cr>         --Locks Outlet(s) state, n=0,1...8,all
Unlock n <cr>       --Unlock Outlet(s) state, n=0,1...8,all
Current <cr>        --Display True RMS Current
Clear <cr>          --Reset the maximum detected current
Temp <cr>           --Read current temperature
Voltage <cr>        --Display True RMS Voltage
Logout <cr>         --Logoff
Logoff <cr>        --Logoff
Exit <cr>           --Logoff
Password <cr>       --Changes the current user password
Whoami <cr>         --Displays the current user name
Unitid <cr>         --Displays the unit ID
Help <cr>          --This Command
```

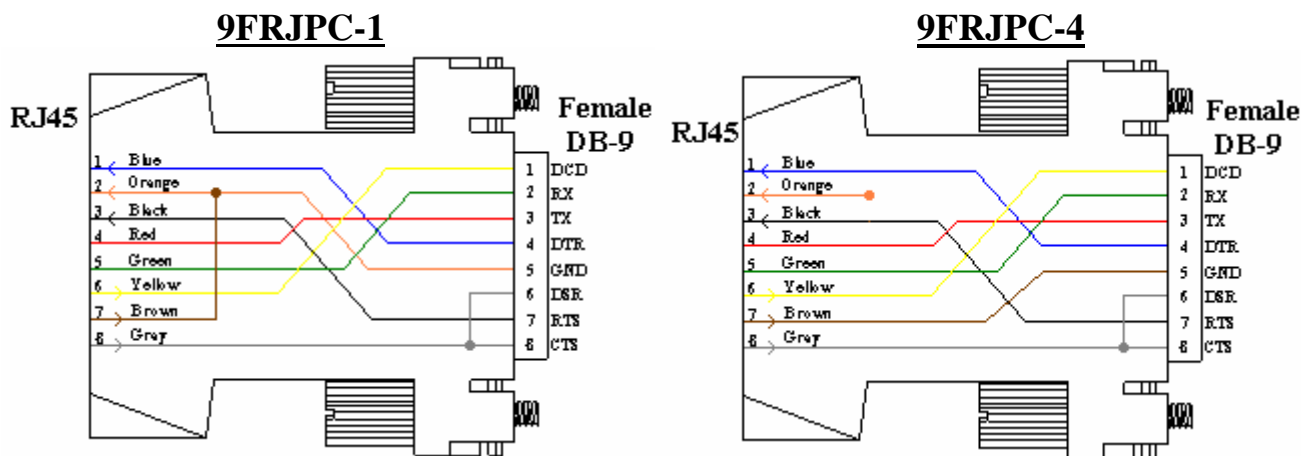
```
Type "Help" for a list of commands
```

```
RPC-36>
```

## Cables and Adapters

Listed are the pin specifications for the BayTech cable and adapters and the terminal COM ports:

| Signal | RS-232 Port (DS) | RS-232 Port (RPC) | Com Port DE-9 | COM Port DB-25 Pin |     |
|--------|------------------|-------------------|---------------|--------------------|-----|
| DTR    | 1                | 1                 | 4             | 20                 | DSR |
| GND    | 2                | 2                 |               | 1                  | GND |
| RTS    | 3                | 3                 | 7             | 5                  | CTS |
| TxD    | 4                | 4                 | 3             | 2                  | RxD |
| RxD    | 5                | 5                 | 2             | 3                  | TxD |
| DSR    | 6                | N/C               | 6             | 6                  | DTR |
| GND    | 7                | 7                 | 5             | 7                  | GND |
| CTS    | 8                |                   | 8             | 4                  | RTS |
| DTR    |                  |                   | 4             |                    | DCD |
| DCD    |                  | 8                 | 1             | 8                  | DTR |
| RI     | 9                |                   |               | 22                 |     |



## RJ08X007

