

# QUICK START: RPC Series

by Bay Technical Associates

The RPC Series is a remote power control unit that allows for power monitoring and outlet control.

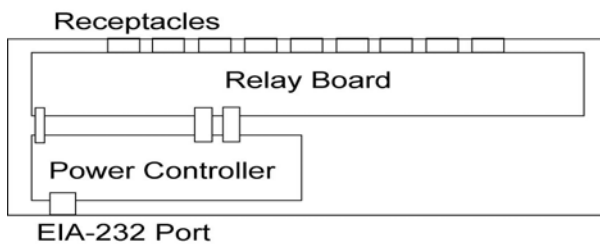
## Installation

The RPC 4's, 4A's, 6's, 6A's, 10's, 12's, 12A's, 14's, 14A's, 16's, 16A's, 18's, 18A's, and 42's use the same configuration instructions. The figures in this manual are based on the RPC 12A, the actual screen displays will vary by model.

Remove the RPC from the package. Check the contents of shipment to make sure that you received:

- RPC unit
- RJ08X007 (RJ45 Rollover Cable)
- 9FRJ45PC-1 (DE-9 to RJ45 Adapter)

## Interior Architecture



**Power Controller:** The power controller connects to the relay board to control the outlets.

## 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>

**Figure 1**

RPC12-10 Series  
 (C) 2000 by BayTech  
 F2.00

Option(s) Installed:  
 True RMS Current  
 Internal Temperature

True RMS Current: 0.0 Amps  
 Maximum Detected: 0.1 Amps  
 Internal Temperature: 25.5 C

1>...Outlet 1	: On	2>...Outlet 2	: On
3>...Outlet 3	: On	4>...Outlet 4	: On
5>...Outlet 5	: On	6>...Outlet 6	: On
7>...Outlet 7	: On	8>...Outlet 8	: On
9>...Outlet 9	: On	10>...Outlet 10	: On
11>...Outlet 11	: On	12>...Outlet 12	: On
13>...Outlet 13	: On	14>...Outlet 14	: On
15>...Outlet 15	: On	16>...Outlet 16	: On
17>...Outlet 17	: On	18>...Outlet 18	: On

Type "Help" for a list of commands

RPC12-10>

**Status Screen:** Once the serial connection is made using the terminal software, the screen will display *Figure 1*. This displays the inherent state of the outlets, the Average Power, RMS voltage and Current and Maximum Detected Current both in Amps. Also shown is the state of the circuit breaker and the Internal Temperature of the unit.

<sup>1</sup> We recommend Windows HyperTerminal with a port configuration set to 9600, 8, none, 1. This manual uses Tera Term found at [http://hp.vector.co.jp/authors/VA\\_002416/tterm23.zip](http://hp.vector.co.jp/authors/VA_002416/tterm23.zip).

**Power Controller Configuration:** The management of users and outlets.

**RPC Configuration:** Type *config* followed by a <CR><sup>2</sup>. This command takes you to *Figure 2*. This screen will enable you to edit any of the information listed.

### **Figure 2**

RPC12-10>config

```
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:
```

**Manage Users:** The Manage Users menu shown in *Figure 3* allows the user to add, delete, or edit usernames. This menu also allows the administrator to edit the level of outlet access the user is granted.

**Change Outlet Name:** Allows the administrator to change the name of the outlets.

**Enable/Disable Confirmation:** Enables/Disables the confirmation of choices. Example, “Turn off all outlets [Y/N]?”

**Enable/Disable Status Menu:** Enables/Disables the status screen. Example, the screen with the Amperage and Voltage readings is shown when you first log on to the unit.

**Change Unit ID:** Allows the user to change the name of the unit. Defaulted as something similar to BT RPC12-10. Allows the user to personalize or customize name or location, up to 31 alphanumeric characters.

**Change Alarm Threshold:** The Alarm Threshold is the value set that sounds the amperage alarm when it reaches or exceeds the amperage value indicated.

### **Figure 3**

Enter Request: 1

```
-----
|      User      | | 1! 2! 3! 4! 5! 6! 7! 8! 9!10!11!12!13!14!15!16!17!18! |
|-----|-----|
```

```
A)>...Add User
D)>...Delete User
R)>...Rename User
```

Enter user number to assign Outlets, A, D or R.

Enter Request:

**User Access:** Once you add a user, you can grant/restrict access to outlets or outlet control.

To add multiple outlets under the user name, use the following nomenclature: X,X,X,X. Where “X” is the number of the outlet you wish to assign.

Any changes being made do not take affect until the selected user is logged in.

To switch a user, you must log out and log back in under the new user name.

<sup>2</sup> <CR> = HRT or ENTER. This can also take you back to the previous screen.

**Figure 4**

```
RPC12-10>password
Enter new Password: *****
Re-Enter new Password: *****
Type "Help" for a list of commands

RPC12-10>
```

**Password:** Type *password* followed by a <CR>. Shown in *Figure 4*. This password is for the controller part of the unit.

**Help Menu:** At the Status Menu shown in *Figure 5*, type *Help* followed by a <CR> to view the line commands for the RPC's.

**Figure 5**

```
RPC12-10>help

On n <cr>      --Turn on an Outlet, n=0,1...18,all
Off n <cr>     --Turn off an Outlet, n=0,1...18,all
Reboot n <cr>  --Reboot an Outlet, n=0,1...18,all
Status <cr>    --RPC-12 Status
Config <cr>   --Enter configuration mode
Lock n <cr>   --Locks Outlet(s) state, n=0,1...18,all
Unlock n <cr> --Unlock Outlet(s) state, n=0,1...18,all
Current <cr>  --Display True RMS Current
Clear <cr>    --Reset the maximum detected current
Temp <cr>     --Read current temperature
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

```
RPC12-10>
```

### 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 Pin	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	

