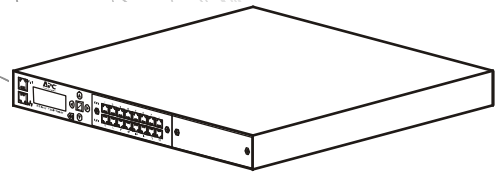


Installation and Quick Configuration

Remote Console Manager

AP5620
AP5621



Contents

Overview	1
Target audience	1
Typographical conventions	1
Safety	1
Installation	3
Inventory	3
Installing the RC Manager	4
Two-point installation, front attachment	4
Two-point installation, midpoint attachment	5
Four-point installation	6
Rear Panel Connections	7
Connecting power cords	7
Connecting a power controller	7
Installing the temperature sensor	7
Connecting the modem	7
Optional: Connecting a hardware authenticator	7
Front Panel Connections	8
Making the management Ethernet connection	8
Making the management console connection	8
Connecting managed devices to a serial-only option card	8
Connecting managed devices to a serial plus Ethernet option card	9
Installing an Additional Option Card	9
Replacing the Power Supply	10
Quick Configuration.....	11
Initial Setup Using the Keypad	11
Initial Setup Using the Console Port.....	13
Setting up Remote Access.....	14
Changing the Administrator's Password	15

Specifications	16
Remote Console Manager	16
Two-Year Factory Warranty	17
Terms of warranty	17
Non-transferable warranty	17
Exclusions	17
Warranty claims	18

Overview

Information in this document is subject to change without notice.

Target audience

This guide is for trained, qualified network support technicians responsible for installing the American Power Conversion (APC®) Remote Console (RC) Manager. At a minimum, you should be familiar with Ethernet technology and terminology as it applies to local area network access.

Typographical conventions

The following conventions are used in this guide.

Sample text from the command line interface is presented in `this font`. Text that you enter is presented in **this font**. For example:

```
[admin@A101100303]# show who  
admin ssh Mar 22 13:38 (172.30.235.126)
```

Keyboard characters are enclosed in angle brackets. For example, press <Enter>.

Safety



Warning: Follow all cautions and warnings to protect the RC Manager from potential damage or loss of data, and to ensure your own safety.



Caution: Read the installation instructions before you connect the RC Manager to a power source.

Read and understand the following instructions before using the RC Manager:

- Only use electrical extension cords with a current rating at least equal to that of the RC Manager.
- Always disconnect the RC Manager from power before cleaning and servicing.
- Do not spray liquids directly onto the RC Manager when cleaning. Always apply the liquid first to a static free cloth.
- Do not immerse the RC Manager in any liquid or place any liquids on it.
- Do not disassemble the RC Manager. To reduce the risk of shock and to maintain the warranty on the RC Manager, a qualified technician must perform service or repair work.
- Connect the RC Manager to a grounded outlet.
- Only connect the RC Manager to surge-protected power outlets.
- Keep ventilation openings free of any obstructions.

Save these instructions.

Installation

Ensure that the power source:

- Provides the appropriate line voltage and frequency (100 to 240 V, 50 or 60 Hz)
- Provides overload protection
- Is connected to earth ground



Warning: The power source must meet all of these requirements to ensure safe and reliable operation.

Ensure that the installation site meets these requirements:

- Ambient temperature does not exceed 45°C (113°F)
- The site provides at least 8 cm (3 in) of clearance beyond the RC Manager's ventilation openings



Caution: The unit will overheat if the site does not meet these requirements.

The RC Manager is designed for installation in a rack.

Inventory

Verify that you have received the following items:

- Remote Console Manager
- Two power cords
- Rack mounting brackets
- Slide rail kit
- Screws
- Cable kit:
 - CAT-5e straight cable, RJ-45, 2.1 m (7 ft)
 - CAT-6 Ethernet crossover cable adapter, RJ-45 M/F
 - Phone cable
 - DB-9 to RJ-45 adapter
- Temperature sensor
- Installation sheet

Installing the RC Manager

The RC Manager is designed for rack installation using either a two-point or a four-point system.

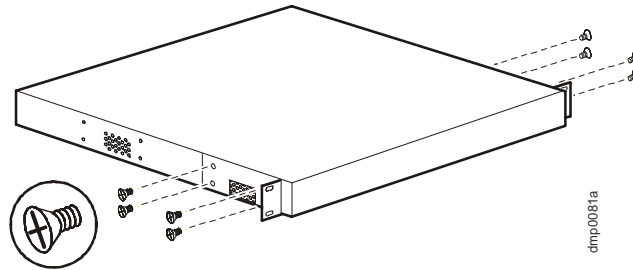
- Two-point installation, front attachment
- Two-point installation, midpoint attachment
- Four-point installation



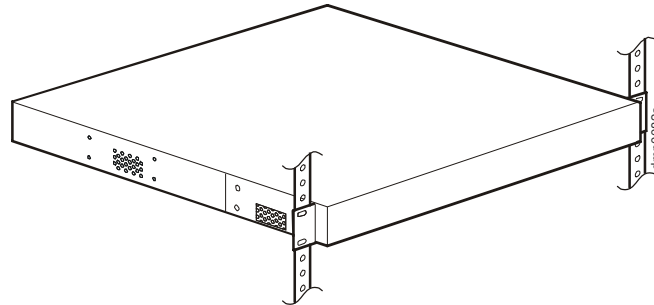
Caution: Ensure that the openings in the mounting brackets line up with the ventilation openings in the RC Manager. If the air flow to the RC Manager is blocked, the RC Manager will overheat.

Two-point installation, front attachment

1. Attach the brackets to the front of the RC Manager, aligning the openings with the ventilation holes.

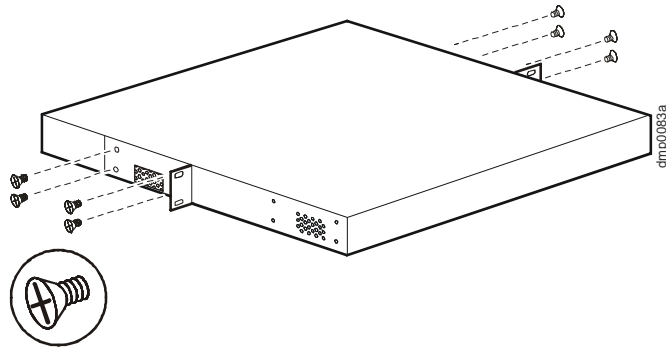


2. Install the RC Manager in the rack.

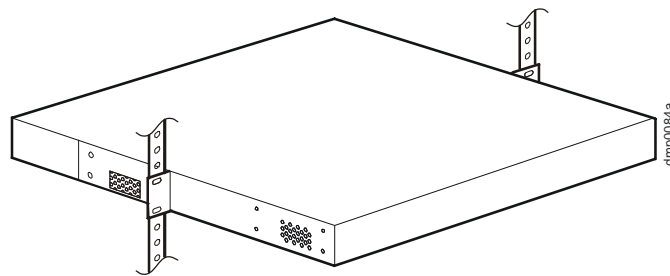


Two-point installation, midpoint attachment

1. Attach the brackets to the midpoints of the RC Manager, aligning the openings with the ventilation holes.

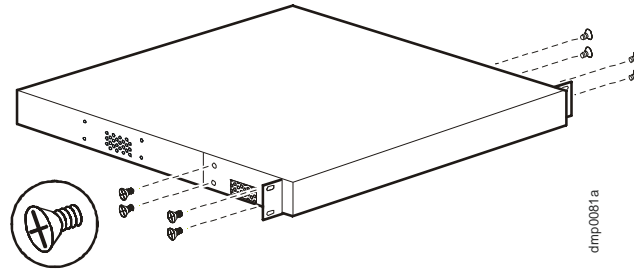


2. Install the RC Manager in the rack.

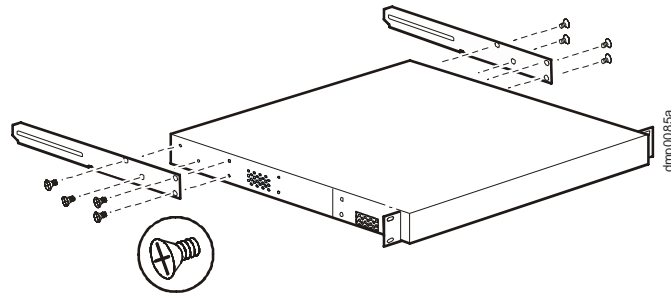


Four-point installation

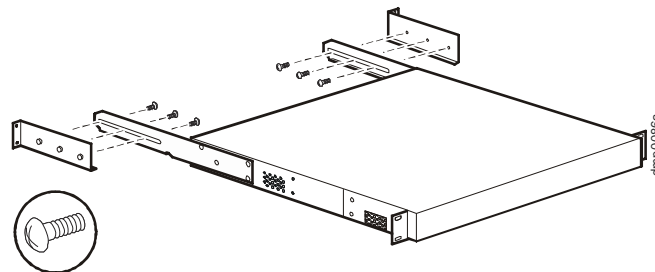
1. Attach the brackets to the front of the RC Manager, aligning the openings with the ventilation holes.



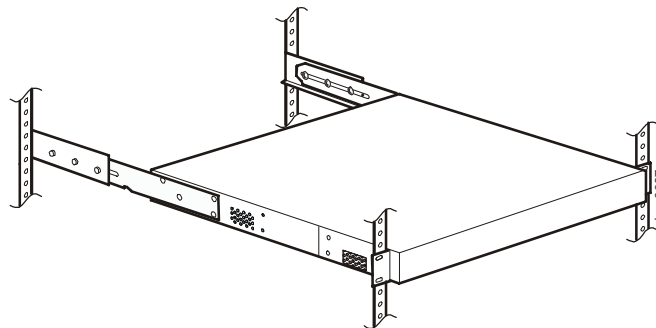
2. Attach the rails to the sides of the RC Manager.



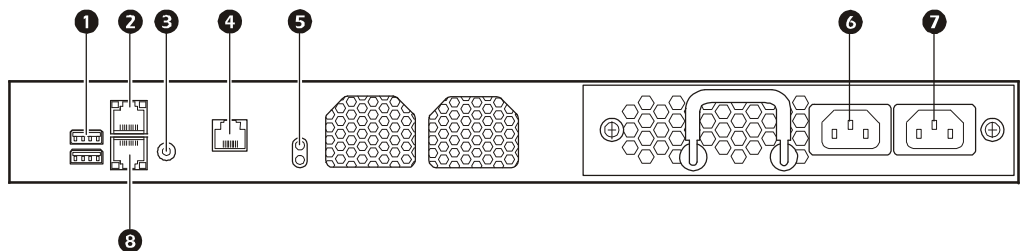
3. Attach the mounting brackets to the rack and to the rails. You must use at least two screws on each side.



4. Install the RC Manager in the rack.



Rear Panel Connections



Item	Description	Item	Description
❶	USB ports	❺	Power indicators
❷	Power controller port	❻	Secondary power supply
❸	Temperature sensor connector	❼	Primary power supply
❹	Internal modem	❽	Auxiliary (Aux) port for optional secondary management Ethernet connection

Connecting power cords

The RC Manager uses two power cords with standard IEC-320-C13 female cord ends.

Connect the power cords to the unit and to appropriate power sources, then turn on power to the unit. The display and keypad on the front panel illuminate. At start-up, the Remote Console Manager displays progress messages. At the end of the start-up sequence, the RC Manager displays the message “RC Manager status good”.

Connecting a power controller

Connect the serial port of the power controller to the power controller port ❷ with the APC Console to Switched Rack PDU Cable (AP9317).

Installing the temperature sensor

1. Select a location for the sensor (for example, one of the posts on the rack).
2. Secure the temperature sensor’s threaded connector to the 1-Wire[®] temperature sensor connector ❸.
3. Route the sensor wire to the location you selected and secure the sensor.

Connecting the modem

The RC Manager is available with either an internal modem or a serial port for an external modem.

Internal modem. Connect the internal modem ❹ to a standard analog (POTS) phone jack provided by your local telephone company for out-of-band dial-up support.

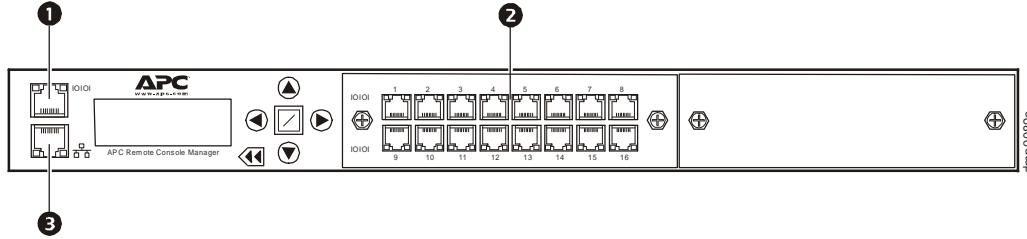


Caution: To prevent equipment damage, do not connect the internal modem to digital PBX systems, VoIP analog terminal adapters, or cellular modems. It is designed for use with analog telephone lines only.

Optional: Connecting a hardware authenticator

For automatic one-time password authentication during out-of-band operation, connect an RSA[®] SecurID[®] SID800 hardware authenticator to one of the USB ports ❶ on the back panel of the RC Manager.

Front Panel Connections



Item	Description
1	Management console port
2	Devices to be managed (16-port Serial RC Manager [AP5620] shown)
3	Management Ethernet port

Making the management Ethernet connection

To manage the Remote Console Manager and its attached devices in-band through the network, connect the management Ethernet port 3 on the front panel to your Ethernet network. Speed and duplexing default to autonegotiation.

The RC Manager's Ethernet transceivers are configured for Media Dependent Interface (MDI), so a crossover cable should not be required to connect this port to a switch.



Note: After you turn on the RC Manager, one of the indicators on the RJ-45 Ethernet port will light when low-level connectivity is established. If both indicators remain dark after you connect this port, try combining the crossover cable adapter to one side of the connection.

Optionally, make a secondary management Ethernet connection through the Aux port on the back of the RC Manager, below the power controller connector. The main and secondary management Ethernet connections must be on the same subnet, but can be through separate switches for redundancy.

Making the management console connection

To manage the RC Manager and its attached devices using the TTY console, connect the provided RJ-45 to DB-9 adapter to your computer's serial port, and connect the RJ-45 cable from the management console port 1 of the RC Manager to the adapter.

The default settings for the console port are 9600 bps, 8 data bits, no parity, 1 stop bit, and no flow control.

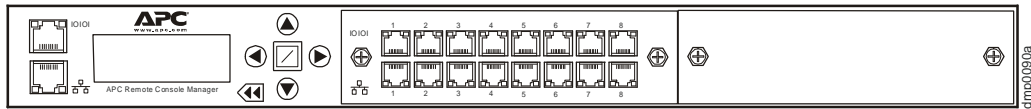


Note: Link status is indicated by one of the LEDs on the RJ-45 Serial port. If neither light is illuminated after you connect a device using one of the provided white CAT-5e cables, the port should be changed to use DTE. The rolled console cables (often flat) provided with network devices usually require this change as well.

Connecting managed devices to a serial-only option card

Connect the console ports of up to 16 network devices to the 16 serial ports on the serial-only option card 2.

Connecting managed devices to a serial plus Ethernet option card



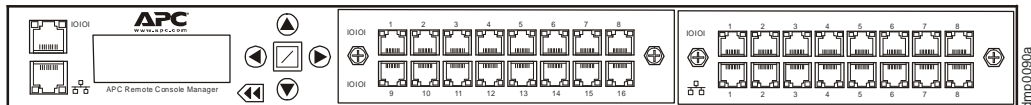
Use the upper row of serial ports (labeled with the serial symbol) to connect to device console ports.

To enable dedicated TCP/IP connectivity to the connected devices, and to enable additional diagnostic features of the RC Manager, connect each of the corresponding eight Ethernet ports in the lower row of connectors to an available Ethernet port on a device. For example, if the device is connected to the third serial port, its Ethernet connection must go to the third Ethernet port.



Note: The RC Manager's Ethernet transceivers are configured for MDI, so it should not require a crossover cable adapter to connect this port to a switch. However, when connecting to other devices such as routers and firewalls, you may need to use the provided crossover cable adapter.

Installing an Additional Option Card



Caution: Always remove power from the RC Manager before installing or removing option cards.

If you purchase an optional 16-port Serial Option Card (AP5621) or 8-port Serial/8-port Ethernet Option Card (AP5623) for the RC Manager, install it as follows:

1. Remove power from the RC Manager
2. Remove the blank faceplate.
3. Slide the option card into place.
4. Tighten the captive screws to ensure that the internal connector seats properly.
5. Turn on the RC Manager.

If you remove an option card, an alarm is generated. To clear this alarm, and to clear all of the database information about the option card itself, use the **config system clear slot** command after you have completed the RC Manager configuration.

Replacing the Power Supply

To install a new power supply in the RC Manager:

1. Remove power from the RC Manager and disconnect the power cords.
2. Loosen the captive screws securing the power supply, and slide it out of the RC Manager.
3. Gently slide the new power supply into the RC Manager. Do not use force.
4. Tighten the captive screws to ensure that the internal connector seats properly.
5. Connect the appropriate power cords to the RC Manager and to suitable power sources.



Caution: Forcing the power supply into place can damage its internal connector, causing it to fail.



Warning: Follow all federal, state, and local regulations when disposing of the power supply.

Quick Configuration

The setup tasks include:

- Initial configuration, either from the keypad or from a console workstation
- Setting up remote access
- Changing the administrator (admin) password

Initial Setup Using the Keypad

The RC Manager is ready for configuration when the front panel display begins to scroll through screens of device information.

The keypad located on the front panel provides up, down, left, and right arrow keys, as well as ENTER and BACK keys. The left and right arrows move the cursor left and right, respectively. The up and down keys change numerical values.



When you use the keypad, no username or password is required.



Note: For security, you can disable the keypad after you finish the initial setup. From the Command Line Interface (CLI), issue the `config system keypad` command.

For each setting, you can accept the default or existing setting by pressing the ENTER key.

1. Press the ENTER key on the keypad to access the menu. The > character appears to the left of the currently selected option. Press ENTER or the right arrow button to access the configuration screens.

```
>Configure RC Manager
Restart RC Manager
```
2. The RC Manager can use a DHCP server for network addressing, or you can configure a static IP address. Brackets appear around the selected option.

```
Use DHCP?
[Yes] No
```

Use the left and right arrows to select your response, then press ENTER to advance.
 - If you are using DHCP, skip to step 3. To review the assigned IP address after configuration is complete, re-enter the configuration dialog.
 - If you are using a static IP address:
 - a. Enter the IP address that the RC Manager should use. Use the left and right arrows to move between digits of the IP address, and the up and down arrows to change individual digits. The > prompt points to the digit to be changed.

```
RC Manager IP:
>000.000.000.000
```

When entering an IP address, built-in validation keeps the octet below 255 at all times. You

may need to change the second digit of the octet before you can change the first digit. For example, to change the number 180 to 240, you must change the second digit from 8 to 4 before you can change the first digit from 1 to 2. The validation will not allow an address 280, so the first character will toggle between 1 and 0 until you change the second character to keep the octet at or below 255.

- b. Configure the subnet mask for the RC Manager.

```
RC Manager Netmask:  
>255.255.255.000
```

- c. Specify a default route for network connectivity.

```
Default Route:  
>000.000.000.000
```

3. At the prompt, select speed and duplexing options.

```
Autonegotiation
```

```
[Yes] No
```

This setting needs to match your network. If there is an autonegotiation mismatch, the RC Manager uses the setting 10/half.

4. If you choose not to use autonegotiation, select speed and duplexing to match your network.

```
[100full] 10full
```

```
100half 10half
```

5. Do not enter a server IP address. Press ENTER to skip to the next configuration item.

```
EMS Server IP:  
>127.000.000.001
```

6. If a Pulse server is to be used, enter the IP address here.

```
Pulse Server IP:  
127.000.000.001
```

7. If you connect to the console port using a null-modem cable, enable the null modem setting on the RC Manager. Otherwise, select No.

```
Use null modem?
```

```
Yes [No]
```



Note: If the console connection does not work, try changing this setting.

8. Select **Yes** to save your changes.

```
Confirm Changes?
```

```
Yes [No]
```


Initial Setup Using the Console Port

The configuration options available at the keypad are also available when you use CLI commands at the console port. To configure the RC Manager using the console port, connect directly to the port labeled **console** on the front panel of the RC Manager.

1. Open a connection to the RC Manager using a terminal client on your computer. Examples of terminal clients include Windows HyperTerminal, ZTerm (for Mac OS X), and Minicom (for Unix/Linux).
The default console connection settings are 9600 baud, 8 data bits, 1 stop bit, no parity, and no flow control. For best results, set your terminal emulator to use ANSI encoding.
2. At the prompts, enter your user name and password. The default username is **admin** and the default password is **password**.



Note: Usernames and passwords are case-sensitive.

3. To configure the RC Manager's network addressing, use the **config system ip** command. The RC Manager displays the current settings, and presents a prompt asking whether you want to make changes.

```
[admin@A101100303]# config system ip

--- Existing Values ---
Use DHCP: Yes
Management IP: 172.30.151.8
Host Name: A101100303
Subnet Mask: 255.255.255.0
Broadcast Address: 172.30.151.255
Default Route: 172.30.151.254
Speed/duplex: auto:100full
DNS Server:
MAC Address: 00:0F:2C:00:02:BF
Change these? (y/n) [n]: y

--- Enter New Values ---
Use DHCP: (y/n) [y]: n
Management IP: [172.30.151.8]: 172.30.151.109
Host Name: [A101100303]: xyzcoAus01
Subnet Mask: [255.255.255.0]:
Default Route: [172.30.151.254]:
speed/duplex: [auto:100full]:
DNS Server IP: []:
Warning: Remote connections may be lost if you commit changes.
Do you want to commit these changes? (y/n): y
```

Enter **y** to save your changes.



Note: DNS names are not required.

Optional: Specify a pulse server using the `config system pulse` command.

```
[admin@xyzcoAus01]# config system pulse
--- Existing Values ---
Use Pulse: false
Pulse Server IP: 127.0.0.1
Pulse Server Port: 7
Dial Out when pulse fails: no
Change these? (y/n) [n]: y

--- Enter New Values ---
Enable ppp to dial out on pulse failure: (y/n) [n]: n
Use Pulse: (y/n) [n]: y
Pulse IP: [127.0.0.1]: 192.168.1.2
Pulse Port: [7]:
Do you want to commit these changes? (y/n): y
```

The above example enables Pulse but does not enable the dial-out PPP function. Without PPP enabled, the RC Manager can use rules to generate alarms even when Pulse fails.

At the CLI, access the null modem setting by using the `config system serial` command.

```
[admin@xyzcoAus01]# config system serial
--- Existing Values ---
Null modem: no
Change these? (y/n) [n]: y
Enable null modem? (y/n) [n]: y
Do you want to commit these changes? (y/n): y
```

Setting up Remote Access

The RC Manager uses Secure SHell (SSH) v2 software to provide secured remote access. Your remote client application must also support SSH v2. Supported clients include:

- PuTTY
- SSH[®] Tectia[™]
- VanDyke[®] SecureCRT[®]
- SSHTerm for Windows
- iTerm for Macintosh OS X

UNIX has a built-in `ssh` command. For example, in a UNIX command line, type:

```
ssh admin@192.168.1.35
```

Log in with the default username and password (**admin** and **password**). When you are logged in, you will see a prompt similar to the following:

```
[admin@A101100303]#
```



Note: The first time your SSH client connects to an SSH host, you may see an SSH key fingerprint message. This is normal. The client usually caches the key for subsequent use and warns if the host has changed, often indicating network eavesdropping.

Changing the Administrator's Password

To ensure system security, change the `admin` user's password after you log in for the first time. The `admin` user cannot be deleted and has access to all commands.

To change the `admin` user's password, use the `config password` command.

```
[admin@xyzcoAus01]# config password
Old Password:*****
New Password [*****]: *****
Confirm Password: *****
Password changed.
```

Specifications

Remote Console Manager

Electrical

Input voltage, nominal	100–240 VAC; 50/60 Hz
Maximum total current draw	2 A
Power and heat	
Idle	0.102 kVA (102 W), 348 BTU per hour
Operational	0.148 kVA (148 W), 505 BTU per hour
Input connector	IEC-320-C14
Acceptable input voltage	100–240 Vac
Input frequency	50/60 Hz

Physical

Dimensions (H x W x D)	4.4 x 44.4 x 48.1 cm (1.75 x 17.5 x 18.94 in)
Dimensions with mounting brackets (H x W x D)	4.4 x 48.3 x 48.1 cm (1.75 x 19 x 18.94 in)
Shipping dimensions (H x W x D)	25.4 x 63.5 x 68.6 cm (10 x 25 x 27 in)
Weight (RC Manager with 2 option cards)	11.1 kg (24.4 lb)
Shipping weight	15.9 kg (35 lb)

Environmental

Elevation (above MSL)	
Operating	3049 m (10,000 ft)
Storage	4573 m (15,000 ft)
Temperature	
Operating	5 to 50°C (41 to 122°F)
Storage	–25 to 70°C (–13 to 158°F)
Humidity	
Operating	5 to 95%, non-condensing
Storage	5 to 95%, non-condensing

Temperature sensor

Temperature accuracy	±0.5°C
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Compliance

Approvals	MET USA, FCC Part 15 Class A; MET Canada, ICES-003 Class A; CE
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Maximum cable length

Ethernet	100 m (330 ft)
Serial (RS-232)	15 m (50 ft)
Serial (RS-485)	1200 m (4,000 ft)

Two-Year Factory Warranty

This warranty applies only to the products you purchase for your use in accordance with this manual.

Terms of warranty

APC warrants its products to be free from defects in materials and workmanship for a period of two years from the date of purchase. APC will repair or replace defective products covered by this warranty. This warranty does not apply to equipment that has been damaged by accident, negligence or misapplication or has been altered or modified in any way. Repair or replacement of a defective product or part thereof does not extend the original warranty period. Any parts furnished under this warranty may be new or factory-remanufactured.

Non-transferable warranty

This warranty extends only to the original purchaser who must have properly registered the product. The product may be registered at the APC Web site, www.apc.com.

Exclusions

APC shall not be liable under the warranty if its testing and examination disclose that the alleged defect in the product does not exist or was caused by end user's or any third person's misuse, negligence, improper installation or testing. Further, APC shall not be liable under the warranty for unauthorized attempts to repair or modify wrong or inadequate electrical voltage or connection, inappropriate on-site operation conditions, corrosive atmosphere, repair, installation, exposure to the elements, Acts of God, fire, theft, or installation contrary to APC recommendations or specifications or in any event if the APC serial number has been altered, defaced, or removed, or any other cause beyond the range of the intended use.

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NO SALESMAN, EMPLOYEE OR AGENT OF APC IS AUTHORIZED TO ADD TO OR VARY THE TERMS OF THIS WARRANTY. WARRANTY TERMS MAY BE MODIFIED, IF AT ALL, ONLY IN WRITING SIGNED BY AN APC OFFICER AND LEGAL DEPARTMENT.

Warranty claims

Customers with warranty claims issues may access the APC customer support network through the Support page of the APC Web site, www.apc.com/support. Select your country from the country selection pull-down menu at the top of the Web page. Select the Support tab to obtain contact information for customer support in your region.

Radio Frequency Interference



Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

USA—FCC

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to 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 this user manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference. The user will bear sole responsibility for correcting such interference.

Canada—ICES

This Class A digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

Japan—VCCI

This is a Class A product based on the standard of the Voluntary Control Council for Interference by Information Technology Equipment (VCCI). If this equipment is used in a domestic environment, radio disturbance may occur, in which case, the user may be required to take corrective actions.

この装置は、情報処理装置等電波障害自主規制協議会（VCCI）の基準に基づくクラス A 情報技術装置です。この装置を家庭環境で使用すると、電波妨害を引き起こすことがあります。この場合には、使用者が適切な対策を講ずるよう要求されることがあります。

Taiwan—BSMI

警告使用者：
這是甲類的資訊產品，在居住的環境中使用時，可能會造成射頻干擾，在這種情況下，使用者會被要求採取某些適當的對策。

Australia and New Zealand

Attention: This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

European Union

This product is in conformity with the protection requirements of EU Council Directive 89/336/EEC on the approximation of the laws of the Member States relating to electromagnetic compatibility. APC cannot accept responsibility for any failure to satisfy the protection requirements resulting from an unapproved modification of the product.

This product has been tested and found to comply with the limits for Class A Information Technology Equipment according to CISPR 22/European Standard EN 55022. The limits for Class A equipment were derived for commercial and industrial environments to provide a reasonable protection against interference with licensed communication equipment.

Attention: This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

APC Worldwide Customer Support

Customer support for this or any other APC product is available at no charge in any of the following ways:

- Visit the APC Web site to access documents in the APC Knowledge Base and to submit customer support requests.
 - **www.apc.com** (Corporate Headquarters)
Connect to localized APC Web sites for specific countries, each of which provides customer support information.
 - **www.apc.com/support/**
Global support searching APC Knowledge Base and using e-support.
- Contact an APC Customer Support center by telephone or e-mail.
 - Regional centers

Direct InfraStruXure Customer Support Line	(1)(877)537-0607 (toll free)
APC headquarters U.S., Canada	(1)(800)800-4272 (toll free)
Latin America	(1)(401)789-5735 (USA)
Europe, Middle East, Africa	(353)(91)702000 (Ireland)
Western Europe (including Scandinavia)	+800 0272 0272
Japan	(0) 36402-2001
Australia	1(800) 652 725 (toll free)
New Zealand	0 (800) 333 373 (toll free)

- Local, country-specific centers: go to **www.apc.com/support/contact** for contact information.

Contact the APC representative or other distributor from whom you purchased your APC product for information on how to obtain local customer support.

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