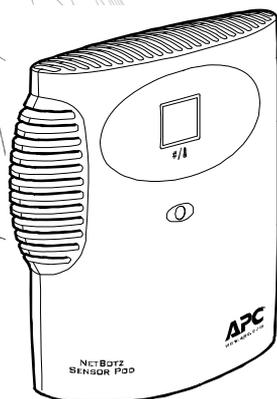




Installation Manual

NetBotz[®] Room Sensor Pod 155

NBPD0155





This manual is available in English on the enclosed CD.

Dieses Handbuch ist in Deutsch auf der beiliegenden CD-ROM verfügbar.

Este manual está disponible en español en el CD-ROM adjunto.

Ce manuel est disponible en français sur le CD-ROM ci-inclus.

Questo manuale è disponibile in italiano nel CD-ROM allegato.

本マニュアルの日本語版は同梱の CD-ROM からご覧になれます。

Instrukcja obsługi w języku polskim jest dostępna na CD.

O manual em Português está disponível no CD-ROM em anexo.

Данное руководство на русском языке имеется на прилагаемом компакт-диске.

您可以从包含的 CD 上获得本手册的中文版本。

동봉된 CD 안에 한국어 매뉴얼이 있습니다 .

Contents

Introduction	1
Product description	1
Document overview	2
Additional documentation	2
Additional options	3
InfraStruXure-certified	3
Physical Description	4
Front	4
Rear	5
Inventory	6
Install the NetBotz 155	8
Electrical box	8
Wall options	9
Ceiling	10
Enclosure	11
Connect Sensors	12
Configure and Monitor Sensors	12
Upgrades	13
Clean the NetBotz 155	13
Specifications	14
Two-Year Factory Warranty	15
Terms of warranty	15
Non-transferable warranty	15
Exclusions	15
Warranty claims	16

Introduction

Product description

The American Power Conversion (APC®) NetBotz® Room Sensor Pod 155 connects to a NetBotz appliance and allows you to increase the space monitored by your NetBotz security and environmental monitoring system. You can connect the NetBotz 155 to one of the following appliances: NetBotz Rack Monitor 450 (NBRK0450), NetBotz Room Monitor 455 (NBWL0455), or NetBotz Rack Monitor 550 (NBRK0550). The Room Sensor Pod 155 cannot be used with a NetBotz Room Monitor 355 or a NetBotz Rack Monitor 200.

The NetBotz 155 includes four sensor ports for connecting APC environmental sensors and other third-party sensors. The NetBotz 155 also includes built-in temperature, humidity, and airflow sensors.

The total number of NetBotz 155s that you can use and the types of sensors that can be used depends upon the specific appliance to which the NetBotz 155 is connected. For details, see the installation and quick configuration manual included with your appliance.

Document overview

The *NetBotz Room Sensor Pod 155 Installation Manual* describes how to install the NetBotz 155. For details on connecting the NetBotz 155 to your appliance, see the installation and quick configuration manual included with your appliance.

Additional documentation

Unless otherwise noted, the following documentation is available on the CD provided with the device or on the applicable product page on the APC Web site, www.apc.com. To quickly find a product page, enter the product name or part number in the Search field.

NetBotz Appliance User's Guide – Includes all details for using, managing, and configuring a NetBotz system with one of the following appliances: NetBotz Room Monitor 355 (NBWL0355, NBWL0356), NetBotz Rack Monitor 450 (NBRK0450), NetBotz Room Monitor 455 (NBWL0455, NBWL0456), or NetBotz Rack Monitor 550 (NBRK0550).

Additional options

The following options are available for the NetBotz 155. For more information about any of the options, contact your APC representative or the distributor from whom you purchased your APC product.

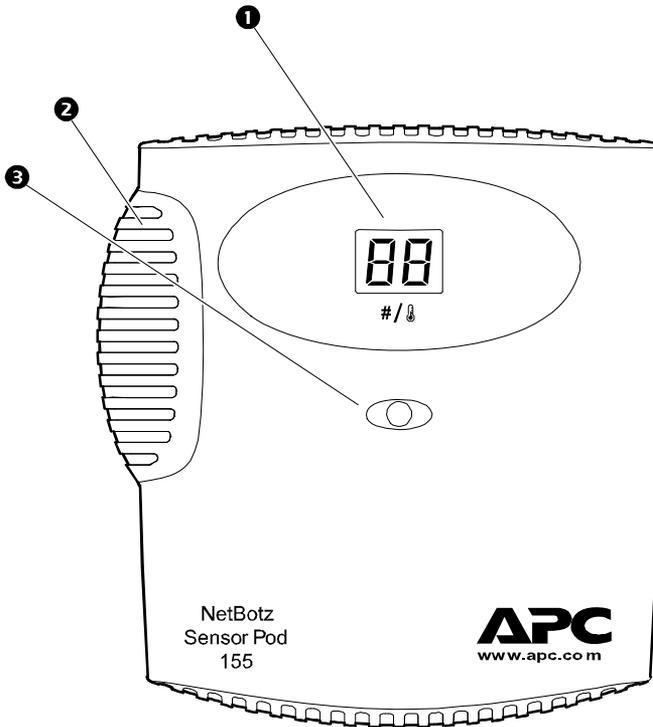
- Temperature Sensor (AP9335T)
- Temperature/Humidity Sensor (AP9335TH)
- NetBotz Spot Fluid Sensor (NBES0301)
- NetBotz Smoke Sensor (NBES0307)
- NetBotz Vibration Sensor (NBES0306)
- NetBotz Door Switch Sensor for APC Racks (NBES0303)
- NetBotz Door Switch Sensor for Rooms or Third Party Racks (NBES0302)
- NetBotz Dry Contact Cable (NBES0304)
- NetBotz 0-5 V Sensor Cable (NBES0305)

InfraStruXure-certified

This product is certified for use in APC InfraStruXure[®] systems.

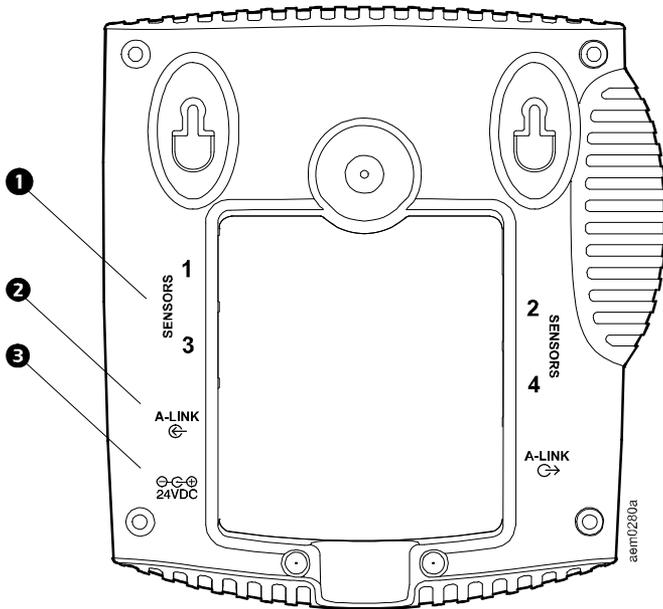
Physical Description

Front



	Item	Description
1	Temperature display	<ul style="list-style-type: none"> Displays the current temperature from 0 to 99 in Centigrade or Fahrenheit. The temperature reading is from the internal temperature sensor. If the temperature exceeds 99, the display will flash 99. When the unit first receives power, displays the unique identifier number for one minute. If an alert exists, flashes at the same rate as the Alert LED. During a firmware upgrade (page 13), displays 88.
2	Vented internal sensors	Vented opening for internal airflow, temperature, and humidity sensors.
3	Alert LED	Indicates the alert status of the NetBotz 155. When more than one alert exists, the most severe will be indicated. <ul style="list-style-type: none"> Flashing once every eight seconds—Informational Flashing once every four seconds—Warning Flashing once every two seconds—Error Flashing once every second—Critical Flashing twice per second—Failure
	Speaker (internal)	Produces audible indication for an alert.

Rear



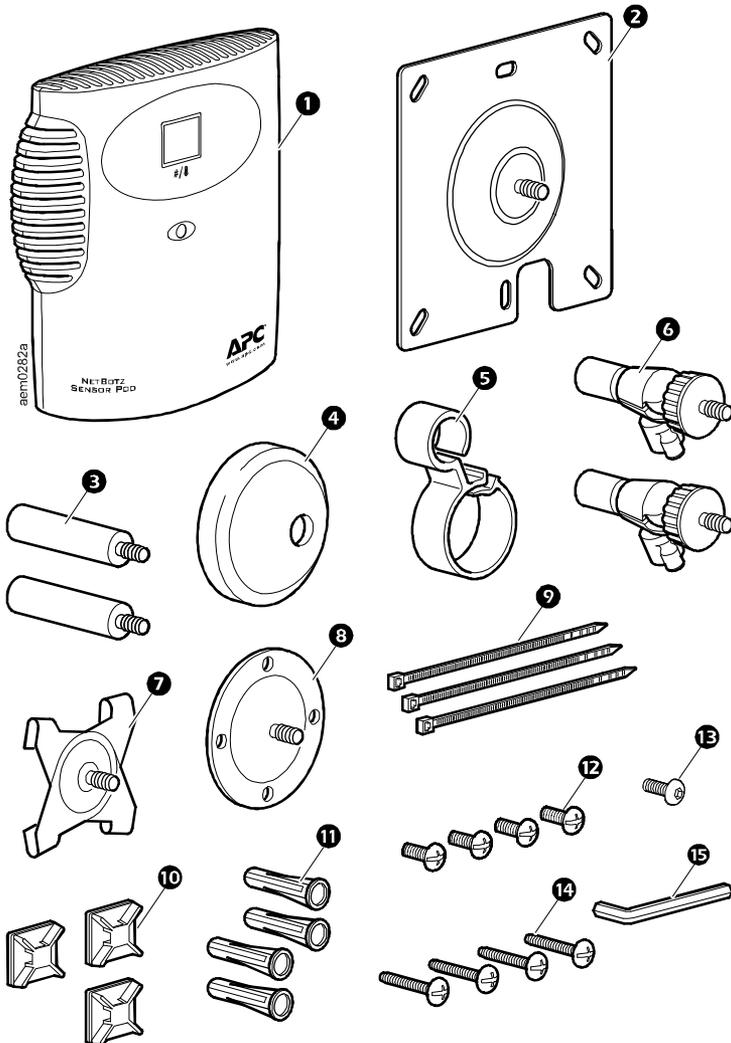
	Item	Description
1	Sensor ports	Used for connecting APC sensors, third-party dry contact sensors, and standard third-party 0-5 V sensors. (See “Additional options” on page 3 for details on APC sensor options.) Third-party dry contact sensors require the NetBotz Dry Contact Cable (NBES0304). Standard third-party 0-5 V sensors require the NetBotz 0-5 V Sensor Cable (NBES0305).
2	A-Link ports • Left port in • Right port out	Used for connecting the NetBotz 155 to a NetBotz Rack Monitor 450, NetBotz Room Monitor 455, or NetBotz Rack Monitor 550. Standard CAT-5 cabling with straight-through wiring is required. Depending on the appliance to which the NetBotz 155 is connected, multiple devices may be cascaded along an A-Link bus.
3	24 VDC input	Provides supplemental power for high-current load configurations. Supplemental power is not required for most system configurations. See the installation and quick configuration manual included with your appliance to determine whether supplemental power is required.

Inventory

Inspect the contents of the package to ensure that the parts included match those shown below. Report missing or damaged contents to APC or your APC reseller. However, if damage was due to shipping, immediately report the damage to the shipping agent.



The shipping and packaging materials are recyclable. Please save them for later use or dispose of them appropriately.



Item	Description
1	NetBotz Room Sensor Pod 155
2	Bracket mounting plate for electrical boxes
3	Extender arms
4	Rubber bracket cover
5	Cable retainer
6	Ball-joint adjuster arms
7	T-bar mounting plate
8	Mounting plate
9	203-mm (8-in) tie wraps
10	A-Link terminator
11	Adhesive cable tie holders
12	Mounting screw wall anchors
13	13-mm (0.5-in) machine screws (for electrical box)
14	Extender arm set screw
15	19-mm (0.75-in) sheet metal screws (for wall or enclosure)
16	Allen wrench

Install the NetBotz 155

Choose an installation option that meets your needs. Then connect the NetBotz 155 to your appliance by following the instructions in the installation and quick configuration manual included with the appliance.

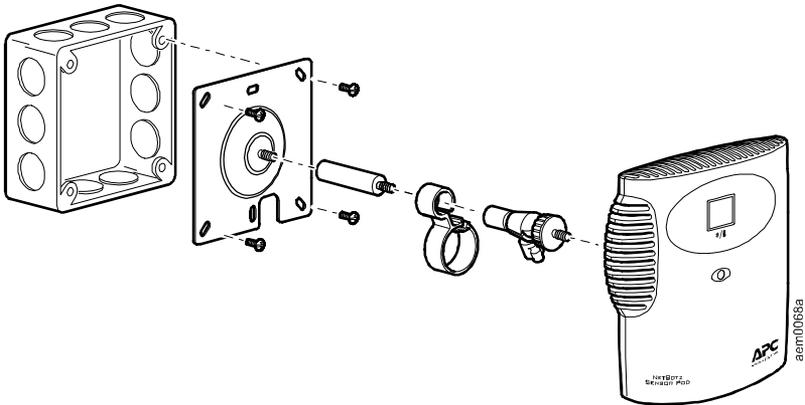


Caution: Only connect approved devices to ports on the NetBotz 155 as directed in this manual. Plugging in other devices may result in equipment damage.



Note: If the direction of airflow is known, the ideal position of the NetBotz 155 for measuring the airflow is directly facing the oncoming air.

Electrical box



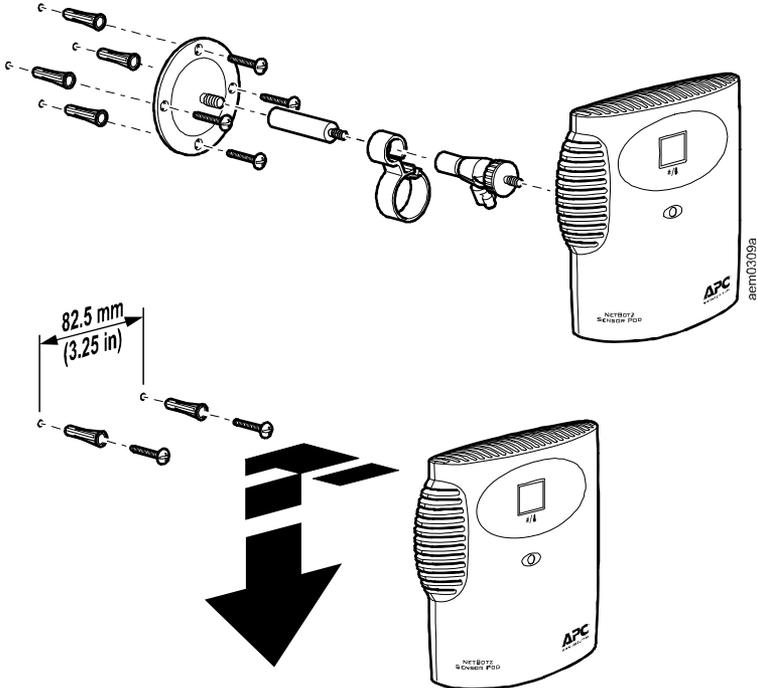
Wall options



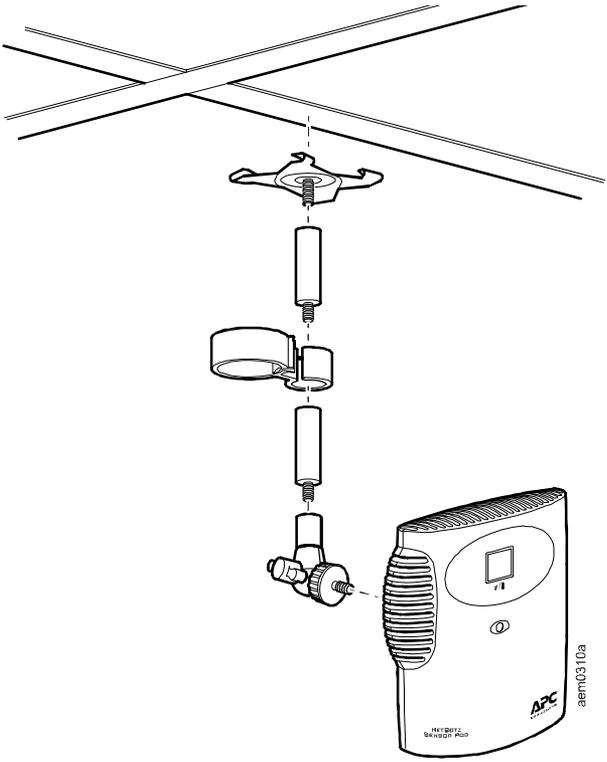
Note: Drill 4.76-mm (3/16-in) pilot holes for wall anchors.



Caution: Do not overtighten the screws.



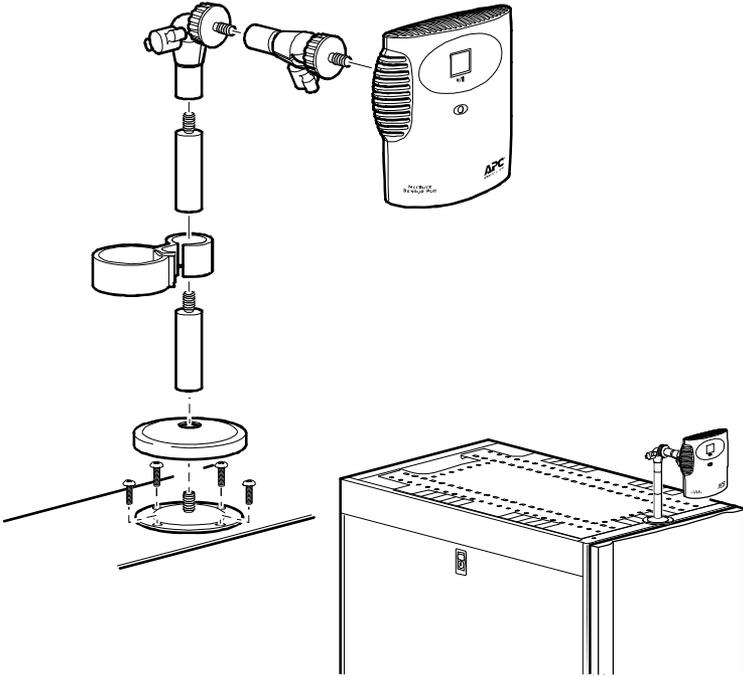
Ceiling



Enclosure



Note: Use a #32 drill to make four 2.94-mm (0.116-in) pilot holes.



Connect Sensors

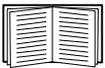
Only connect sensors supported by the appliance to which the NetBotz 155 is connected. See the installation and quick configuration manual included with your appliance.

Connect APC and third-party sensors to the four ports labeled **Sensors** on the NetBotz 155.

- Third-party dry contact sensors require the NetBotz Dry Contact Cable (NBES0304). To connect a sensor to the cable, follow the instructions provided with the sensor and the instructions provided with the cable.
- Standard third-party 0-5 V sensors require the NetBotz 0-5 V Sensor Cable (NBES0305). To connect a sensor to the cable, follow the instructions provided with the sensor and the instructions provided with the cable.
- If a sensor cable is not long enough, use an RJ-45 coupling (provided with some sensors) and standard CAT-5 cabling to extend the cable up to 15 m (50 ft) for a Temperature/Humidity Sensor (AP9335TH) or a Temperature Sensor (AP9335T) and up to 30.5 m (100 ft) for all other supported sensors.

Configure and Monitor Sensors

Once your system is installed and receiving power, configure sensors and begin monitoring your system using the software interface for the appliance.



See your appliance installation and quick configuration manual for system installation details and for instructions on accessing the software interface of the appliance.

Upgrades

Firmware upgrades for NetBotz 155s are included with firmware upgrades for the NetBotz appliances. When you upgrade firmware for the appliance to which the NetBotz 155 is connected, the NetBotz 155 firmware will be updated automatically, if required.



Note: The NetBotz 155 Identifier # LED shows **88** during a firmware upgrade. During the upgrade, data from sensors connected to the NetBotz 155 will be invalid.



For more information on firmware upgrades, see the *NetBotz Appliance User's Guide*.

Clean the NetBotz 155

To clean the device, gently wipe surfaces with a clean, dry cloth.

Specifications

Electrical

Input voltage, nominal 24 VDC; 50-75 mA

Maximum total current draw 75 mA

Physical

Dimensions (H x W x D) 146 x 135 x 38.5 mm (5.75 x 5.31 x 1.5 in)

Weight 0.2 kg (0.4 lb)

Shipping dimensions (H x W x D) 260 x 286 x 165 mm (10.25 x 11.25 x 6.50 in)

Shipping weight 1.4 kg (3.0 lb)

Environmental

Elevation (above MSL)

Operating 0 to 3000 m (0 to 10,000 ft)
Storage 0 to 15 000 m (0 to 50,000 ft)

Temperature

Operating 0 to 45°C (32 to 113°F)
Storage -15 to 65°C (5 to 149°F)

Relative Humidity

Operating 10 to 90%, non-condensing
Storage 10 to 90%, non-condensing

Compliance

Immunity/Emissions CE, FCC Part 15 Class A, ICES-003 Class A, VCCI Class A, EN 55022 Class A, EN 55024, AS/NZS CISPR 22

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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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 2004/108/EC 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 the APC Customer Support Center by telephone or e-mail.
 - Local, country-specific centers: go to **www.apc.com/support/contact** for contact information.

For information on how to obtain local customer support, contact the APC representative or other distributors from whom you purchased your APC product.

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