

APC Button APC Button AF

Quick Installation Guide

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Introduction

Copyright

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Notice

Deliberant reserves the right to change specifications without prior notice.

While the information in this manual has been compiled with great care, it may not be deemed an assurance of product characteristics. Deliberant shall be liable only to the degree specified in the terms of sale and delivery.

The reproduction and distribution of the documentation and software supplied with this product and the use of its contents is subject to written authorization from Deliberant.

Trademarks

Deliberant logo is trademark of Deliberant LLC.

All other registered and unregistered trademarks in this document are the sole property of their respective owners.

FCC Warning

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- · Reorient or relocate the receiving antenna.
- · Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- 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.

FCC Caution

To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

FCC Radiation Exposure Statement

To comply with FCC RF exposure requirements in section 1.1307, a minimum separation distance of 3.9 feet is required between the antenna and all occupational persons, and a minimum separation distance of 16.4 feet is required between the antenna and all public persons.

Antenna Compliance

The APC Button and APC Button AF radio module contains internal antenna.

CE Mark Warning

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.

R&TTE Compliance Statement

This equipment complies with all the requirements of the Directive 1999/5/EC of the European Parliament and the Council of 9 March 1999 on Radio Equipment and Telecommunication Terminal Equipment and the Mutual Recognition of their Conformity (R&TTE).

The R&TTE Directive repeals and replaces in the directive 98/13/EEC (Telecommunications Terminal Equipment and Satellite Earth Station Equipment) As of April 8, 2000.

Safety

This equipment is designed with the utmost care for the safety of those who install and use it. However, special attention must be paid to the dangers of electric shock and static electricity when working with electrical equipment. All guidelines of this manual and of the computer manufacturer must therefore be allowed at all times to ensure the safe use of the equipment.

FU Countries Not Intended for Use

None.

About this Guide

Prerequisite Skills and Knowledge

To use this document effectively, you should have a working knowledge of Local Area Networking (LAN) concepts and wireless Internet access infrastructures.

Definitions, Acronyms and Abbreviations

The following typographic conventions and symbols are used throughout this document:



Additional information that may be helpful but which is not required.



Important information that should be observed.

bold Menu commands, buttons, input fields, links, and configuration keys are displayed in bold

References to sections inside the document are displayed in italic.

italic code

File names, directory names, form names, system-generated output, and user typed entries are displayed in constant-width type

Technical Support

If you encounter problems when installing or using this product, please consult the Deliberant website at www.deliberant.com for:

- Direct contact to the Deliberant support centers.
- Frequently Asked Questions (FAQ).
- Download area for the latest software, user documentation and product updates.

Contact us

EU office: Sauletekio ave. 15 – 610 LT-10244. Lithuania US office:

Deliberant 138 Mountain Brook Drive Canton, GA 30115 United States of America

For support: support@deliberant.com For sales enquiries: sales@deliberant.com

Installation

This chapter provides installation instructions for the hardware components of the APC Button and APC Button AF.

Package Contents

The figure below displays package contents of APC Button and APC Button AF:



Figure 1 - Package Contents

ltem	Component Name	Quantity
1	APC unit	1
2	Quick installation guide	1
3	Screw M3.5 x 32 and plastic insert	2
4	PoE adapter *	1
5	Power cord *	1

^{*} For APC Button model only.



If any of these items are missing or damaged, please contact your reseller.

Hardware Introduction

APC unit is housed in a plastic ultrasonically welded enclosure, ensuring a reliable sealing in a wide range of temperature and has an integrated 3 dBi omni-directional antenna.

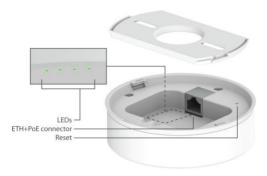


Figure 2 - Overview

The back panel of the APC contains:

- Data/Power connector in the form of passive PoE through standard
- 4 LEDs: LAN activity LED and 3 LEDs for device RSSI level indication
- Reset button

The label of the APC contains:

- Model name
- Serial Number
- LAN MAC address
- FCC ID
- IC ID



Figure 3 - APC Label



Product size and shape are subject to change without notice, and actual product appearance may differ from that depicted in the user quide.

I FDs

The APC has 4 green LEDs located on the side panel: Power, LAN and 2 RSSI LEDs (refer at the *Figure 2 – Overview* for details). The various states of the LEDs indicate different connection operations as follows:

LED	Status	Indication
Power	On	APC is active/working
	Off	No power on APC
LAN	On	LAN connection exists.
	Blinking	Indicates the traffic on LAN interface.
	Off	No LAN connection.
RSSI (1, 2)	On	The RSSI level has reached the appropriate threshold level.
	Off	The RSSI level has not reached the appropriate threshold level.

APC Ceiling/Wall Mounting

The APC Button and APC Button AF units are supplied with mounting hardware for ceiling/wall installation. Follow the steps for APC Button or APC Button AF mounting on a preferable surface.

- Step 1. Make sure that the APC unit is powered-off.
- Step 2. Turn off the back cover to prepare the unit for wall/ceiling mounting:



Step 3. Attach APC mounting bracket to the ceiling or a wall using screws (item 3 in the Figure 1 – Package Contents) as displayed below:



Step 4. Cut a cable hole on a unit cover for Ethernet cable, if required:



Step 5. Insert the UTP cable into the APC unit's ETH port, attach unit to the mounting bracket and gently turn right until it locks:





- 0
- It is recommended to use shielded STP Ethernet cable to reduce exposure of the electromagnetic noise.

Step 4. Power-up the APC unit. The green Power LED must be on (refer at the respective section LEDs). Dependently on link quality, one or two yellow LEDs will switch on indicating that link between two units was established successfully.

APC Management

The first connection to the APC Button or APC Button AF can be made using a standard Ethernet cable connected directly to your PC. See next sections for the instructions on how to access the APC management interfaces.

Access the APC

The default IP address of the APC Button and APC Button AF is 192.168.2.66 with a subnet mask of 255.255.255.0.

Step 1

Configure your PC with a static IP address on the 192.168.2.0 subnet (i.e. 192.168.2.10) with mask 255.255.255.0. Connect the APC Ethernet interface in to the same physical network as your PC. Open the Web browser and type the default IP address of the APC: https://192.168.2.66/



Step 2

Enter the APC administrator login details to access the Web management:



The default administrator login settings for all APC Button and APC Button AF:

Login: admin Password: admin01

Step 3

After successful administrator log on you will see the main page of the APC Web management interface. The APC Button or APC Button AF now is ready for configuration. For further instructions on Web management refer to the respective document APC User Guide

APC Recovery

The APC Button and APC Button AF units have following recovery options:

- Reset button (refer at the Figure 2 Overview). Press and hold the Reset button using a pen or a paper clip for 1 second to reboot the device; press and hold the Reset button for more than 5 seconds to set the device to factory defaults.
- Resetting to defaults via Ping (follow the instructions on Resetting APC via Ping section).
- TFTP recovery mode. Power-off the unit, then press and hold the Reset button (refer at the Figure 2 – Overview), power-on the unit and hold Reset button for more than 5 seconds – the APC unit will boot in recovery mode.

Resetting APC via Ping

APC Button and APC Button AF have the capability of being reset to defaults by pinging the device with a certain packet size when the device is booting. During the startup of the device, when the drivers of the Ethernet interfaces are loaded, the reset program is started. The reset program suspends startup process for 3 seconds and waits for ICMP "echo "request" packet of length 369 bytes. If the packet received, the reset daemon sets the device to default configuration.



It is recommended to connect PC to the device via switch, as depending on PC OS settings, the ARP table might be flushed during wired link status change (connecting the device that will be reset).

Steps to reset to default settings:

- Step 1. Power off the APC device.
- Step 2. Obtain the device MAC address.
- Step 3. Connect a PC to the same physical subnet as the device.
- Step 4. Execute 'arp -s' command to assign the IP address (IP address should be from the same subnet as PC) to the device MAC address:

arp -s <IP address to assign> <device MAC address>



Note that syntax of MAC address differs depending on OS:

For Linux users: AA:BB:CC:DD:EE:FF
For Windows users: AA-BB-CC-DD-EE-FF

Quick Installation Guide APC Recovery

Step 5. Start pinging the APC device:

For Linux users: ping <IP address> -s 369

For Windows users: ping <IP address> -1 369 -t -w 200

- Step 6. Power up device and wait about 30sec or more (depending on device hardware).
- Step 7. Stop pinging the APC, and let the device boot as usual. The device should start up with factory default settings.

Quick Installation Guide Declaration of Conformity

Declaration of Conformity

Česky [Czech]

Deliberant tímto prohlašuje, že tento Deliberant APC Button, APC Button AF, je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 1999/5/ES.

Dansk [Danish]

Undertegnede Deliberant erklærer herved, at følgende udstyr Deliberant APC Button, APC Button AF, overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.

Nederlands [Dutch]

Hierbij verklaart Deliberant dat het toestel Deliberant APC Button, APC Button AF, in overeenstemming is met de essentiële eisen en de andere relevante begalingen van richtlijn 1999/5/FG.

Bij deze verklaart Deliberant dat deze Deliberant APC Button, APC Button AF, voldoet aan de essentiële eisen en aan de overige relevante begalingen van Richtliin 1999/5/EC.

English

Hereby, Deliberant, declares that this Deliberant APC Button, APC Button AF, is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

Eesti [Estonian]

Käesolevaga kinnitab Deliberant seadme Deliberant APC Button, APC Button AF, vastavust direktiivi 1999/5/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asiakohastele sätetele.

Suomi [Finnish]

Deliberant vakuuttaa täten että Deliberant APC Button, APC Button AF, tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.

Français [French]

Par la présente Deliberant déclare que l'appareil Deliberant APC Button, APC Button AF, est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.

Par la présente, Deliberant déclare que ce Deliberant APC Button, APC Button AF, est conforme aux exigences essentielles et aux autres dispositions de la directive 1999/5/CE qui lui sont applicables.

Deutsch [German]

Hiermit erklärt Deliberant, dass sich diese Deliberant APC Button, APC Button AF, in Übereinstimmung mit den grundlegenden Anforderungen und den anderen relevanten Vorschriften der Richtlinie 1999/5/EG befindet. (BMW)

Hiermit erklärt Deliberant die Übereinstimmung des Gerätes Deliberant APC Button, APC Button AF, mit den grundlegenden Anforderungen und den anderen relevanten Festlegungen der Richtlinie 1999/5/EG. (Wien)

Ελληνική [Greek]

ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ Deliberant ΔΗΛΩΝΕΙ ΟΤΙ Deliberant ΑΡC Button, ΑΡC Button ΑF, ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ

ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΌΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΉΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΈΣ ΣΧΕΤΙΚΈΣ ΔΙΑΤΑΞΕΙΣ ΤΗ ΟΛΗΓΙΑΣ 1999/5/FK

Magyar [Hungarian]

Alulírott, Deliberant nyilatkozom, hogy a Deliberant APC Button, APC Button AF, megfelel a vonatkozó alapvető követelményeknek és az 1999/5/EC irányelv egyéb előírásainak.

Íslenska [Icelandic]

Hér með lýsir Deliberant yfr því að Deliberant APC Button, APC Button AF, er í samræmi við grunnkröfur og aðrar kröfur, sem gerðar eru í tilskipun 1999/5/EC.

Italiano [Italian]

Con la presente Deliberant dichiara che questo Deliberant APC Button, APC Button AF, è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.

Latviski [Latvian

Ar šo Deliberant deklarē, ka Deliberant APC Button, APC Button AF, atbilst Direktīvas 1999/5/EK būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.

Lietuvių [Lithuanian]

Šiuo Deliberant deklaruoja, kad šis Deliberant APC Button, APC Button AF, atitinka esminius reikalavimus ir kitas 1999/5/EB Direktyvos nuostatas.

Malti [Maltese]

Hawnhekk, Deliberant, jiddikjara li dan Deliberant APC Button, APC Button AF, jikkonforma mal-ħtiġijiet essenzjali u ma provvedimenti oħrajn relevanti li hemm fd-Dirrettiva 1999/5/EC.

Norsk [Norwegian

Deliberant erklærer herved at utstyret Deliberant APC Button, APC Button AF, er i samsvar med de grunnleggende krav og øvrige relevante krav i direktiv 1999/5/EF.

Slovensky [Slovak]

Deliberant týmto vyhlasuje, že Deliberant APC Button, APC Button AF, spĺňa základné požiadavky a všetky príslušné ustanovenia Smernice 1999/5/ES.

Svenska [Swedish]

Härmed intygar Deliberant att denna Deliberant APC Button, APC Button AF, står I överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.

Español [Spanish]

Por medio de la presente Deliberant declara que el Deliberant APC Button, APC Button AF, cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/S/CE.

Polski [Polish]

Niniejszym, frma Deliberant oświadcza, że produkt serii Deliberant APC Button, APC Button AF, spełnia zasadnicze wymagania i inne istotne postanowienia Dyrektywy 1999/5/EC.

Português [Portuguese]

Deliberant declara que este Deliberant APC Button, APC Button AF, está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE



To get full CE declaration of conformity documents, refer at http://www.deliberant.com/conformity.