

Ceiling Fan Controller, ABB-free@home Installation and Operation Instructions



IMPORTANT: Carefully read all instructions and safety information about this device before operation. Please leave this document with the homeowner for future reference.



WARNING: Installation must be performed by a licensed electrician or electrical professional. Improper installation can cause property damage, personal injury, or loss of life.



WARNING: FIRE
Work performed incorrectly can cause fires. Use the device only in a certified wall box. Recommended: Certified products, which have a high safety standard. Do not connect equipment that is not intended to be controlled by this device. Please refer to the equipment manufacturer if it is unclear.



WARNING: DAMAGED DEVICE
A damaged device could result in serious injury or death. If the device shows any damage to its body or wiring insulation, immediately turn off the power at the circuit breaker or fuse. Replace the device with an undamaged device. Do not try to repair the device.

Intended Use

The ABB Ceiling Fan Controller is used to control one ceiling fan. It has a wireless control unit that connects it to the ABB-free@home system. For information about the many functions of this device, see the system manual at www.abb.com/us/freeathome.

INSTALLATION

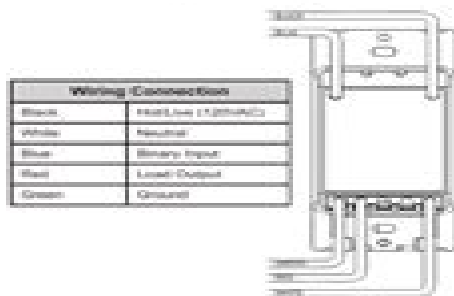


WARNING: SHOCK HAZARD

1. Turn the power OFF at the circuit breaker before installing.
2. Remove the old wall plate from the wall. Remove the old switch ceiling fan controller from the wall box.
3. Disconnect all three wires from the old switch ceiling fan controller.
4. Connect the Ceiling Fan Controller (Refer to the wiring diagram.)

A) Single-Location Installation
B) 3-Way Installation

Wiring Connection Diagrams



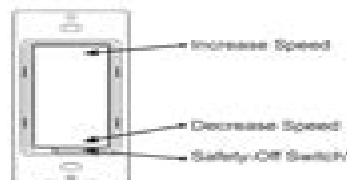
5. Mount the Ceiling Fan Controller. Using a screwdriver and the screws provided, mount the ABB Ceiling Fan Controller.
6. Replace the wall plate.
7. Turn the power ON at the circuit breaker.

Replacing the Rocker and Bezel: The rocker and bezel of the device can be exchanged. Turn the power OFF before removing the rocker bezel with a screwdriver. Turn the power ON after the rocker and bezel have been assembled.

FC-3.1 Technical Data	
Operating Voltage	120 VAC, 60 Hz
Connection	Hot and Neutral Wires Required
Wireless Transmission Protocol	Free@home, 2.400 - 2.485 GHz, Meshed
Ambient Operating Temperature	33° F to 113° F (0°C to 45°C)
Fan power (output power)	200 W maximum

*Recommended for a fan size of 70 in (1.80 m) or smaller

OPERATION



WARNING: "SAFETY-OFF SWITCH"

May result in serious injury or death. The rocker on the device may have been configured to operate another fan other than the one switched off by the Safety-Off. Before replacing the fan, verify that the wires to the fan do not have power by turning the fan ON. If the fan turns off when the Safety-Off is activated, it is safe to replace the fan.

SETUP AND COMMUNICATION

After installation, the Ceiling Fan Controller will immediately allow the lamp to function. To control the fan wirelessly, it will need to be added to the free@home network. Detailed information about setup is available in the technical reference manual and the online help for the System Access Point at www.abb.com/us/freeathome.

1. To complete setup, you will need the ABB-free@home System Access Point (SysAP) and a computer (tablet, laptop, or desktop computer).
2. Walls, ceilings, and electrical equipment can affect wireless communication, especially steel reinforcements or other large metal objects. Electrical devices that send high-frequency signals (such as computers, wireless routers, audio systems, and video systems) should be at least 3 feet from this device.
3. When first powered, the device is in discovery mode for 30 minutes. This time period allows the SysAP to see and connect to the device. During this time, the user can login to the SysAP and add the device to the free@home network.
4. After 30 minutes, the device will automatically exit discovery mode. To re-enter discovery mode, the user must turn the power OFF and back ON again. This will place the device in discovery mode for another 30 minutes.
5. Once a device has been added to a network, it will no longer enter discovery mode at power-up. To add the device to a new network, the user must first force the device to forget its existing network by resetting it back to factory settings. This takes two people to do safely.

Follow these steps to reset:

- A) Turn the power OFF at the circuit breaker.
- B) Turn the power ON at the circuit breaker while pressing the bottom half of the rocker for at least 15 seconds, until the LED light stops flashing.
- C) Return to steps 3-4 of SETUP AND COMMUNICATION to connect the device to a new network.

Codes

Install according to national and local electrical codes.

Grounding

When there is no ground connection in the wall box, the National Electrical Code (NEC) allows a control to be installed as a replacement ONLY if: (1) a non-metal, non-burning faceplate is attached with non-metal screws, OR (2) the circuit is protected by a ground fault circuit interrupter (GFCI). When installing a control, be sure to cap or remove the green wire before screwing the control into the wall box.

Cleaning

To clean, wipe with a clean damp cloth. DO NOT use any chemical cleaning solutions.

RF/EMC Information

This device complies with part 15 of the FCC Rules and Industry Canada's Interference Based Standard (ICES-001). Operation is subject to the following two conditions: (1) the device may not cause interference, and (2) the device must accept any interference, including interference that may cause undesired operation. Modifications not expressly approved by the manufacturer could void the user's authority to operate this equipment. Note: 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 according to the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in an 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 doing one or more of the following:

- Reorient or relocate the receiving antenna.
- Increase the distance between the equipment and the receiver.
- Connect the equipment to an outlet on a different circuit than the circuit used by the receiver.
- Consult the dealer or an experienced radio/TV technician for help.

Customer Service

800-816-7500
7:00 am - 5:30 pm, CST, Monday - Friday
elec_customer@abb.com

Technical Support

888-385-1231, Option 1
7:00 am - 5:00 pm, CST, Monday - Friday
help.support@us.abb.com

For information about the many functions of this device, see the system manual at www.abb.com/us/freeathome.

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Yicheng Fang



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Heavy Metal(loid) Stress-alleviating and Phytostimulating Microorganisms: Dual-performing Warhorses in Soil-bioremediation Krishnendu Pramanik,Pablo Cornejo,Narayan Chandra Mandal,2023-07-06 The omnipresence of diverse microorganisms in the environment is valuable in many ways Their presence in the vicinity of plants benefits as a result of positive plant microbe interaction Phytostimulating microorganisms or plant growth promoting microorganisms PGPMs are a certain group of microbes that includes rhizobacteria endophytes actinomycetes fungi arbuscular mycorrhizal fungi etc They are colonized in different parts of plants as endophytes or the close contact outside the plants root surface rhizosphere and rhizoplane attracted by certain plant exudates or secondary metabolites for nutrition In return PGPMs directly or indirectly assist their host plants by secreting plant growth promoting substances increase nutrient bioavailability of insoluble or less soluble compounds in soils and also confronts invading phytopathogens A major group of these microorganisms takes an active part in soil metal bioremediation an essential concern in the current scenario for the reclamation of metal contaminated agricultural fields **Engineering Corynebacterium Glutamicum Chassis for Synthetic Biology, Biomanufacturing, and Bioremediation** Akihiko Kondo,Yu Wang,Volker F. Wendisch,Christoph Wittmann,Zheng-Hong Xu,Ping Zheng,2022-07-01 U.S. Industrial Directory ,1997 Endoprothetik des Kniegelenkes Dieter Christian Wirtz,Heiko Reichel,Georg Matziolis,Tilman Pfitzner,2023-05-31 Die 5 b ndige Buchreihe AE Manual der Endoprothetik herausgegeben von der Arbeitsgemeinschaft f r Endoprothetik bietet eine umfassende Darstellung der wissenschaftlichen Grundlagen und der klinischen Praxis des k nstlichen Gelenkersatzes f r die Gelenke H fte Knie Schulter Ellenbogen Sprunggelenk und Fu Parallel zu diesen gedruckten Werken erscheinen online Versionen die als Live Reference Ausgaben kontinuierlich aktualisiert werden AE Manual der Endoprothetik Endoprothetik des Kniegelenkes 2 Auflage Komplette durch das Expertenteam Wirtz DC Reichel H Matziolis G und Pfitzner T bearbeitet und ins eReferenzwerk integriert wurde die Ausgabe Knie Pr sentiert wird der aktuelle Wissensstand rund um die Knieendoprothetik in seiner ganzen Breite Das Themenspektrum reicht von Anatomie und Kinematik ber die verschiedenen Implantatsysteme und OP Techniken bis zu Komplikationen und Revisionen **ABB Controller** ,2024

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Table of Contents Abb M2015 Controller Manual

1. Understanding the eBook Abb M2015 Controller Manual
 - The Rise of Digital Reading Abb M2015 Controller Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Abb M2015 Controller Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Abb M2015 Controller Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Abb M2015 Controller Manual
 - Personalized Recommendations
 - Abb M2015 Controller Manual User Reviews and Ratings
 - Abb M2015 Controller Manual and Bestseller Lists
5. Accessing Abb M2015 Controller Manual Free and Paid eBooks
 - Abb M2015 Controller Manual Public Domain eBooks

- Abb M2015 Controller Manual eBook Subscription Services
- Abb M2015 Controller Manual Budget-Friendly Options
- 6. Navigating Abb M2015 Controller Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Abb M2015 Controller Manual Compatibility with Devices
 - Abb M2015 Controller Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Abb M2015 Controller Manual
 - Highlighting and Note-Taking Abb M2015 Controller Manual
 - Interactive Elements Abb M2015 Controller Manual
- 8. Staying Engaged with Abb M2015 Controller Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Abb M2015 Controller Manual
- 9. Balancing eBooks and Physical Books Abb M2015 Controller Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Abb M2015 Controller Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Abb M2015 Controller Manual
 - Setting Reading Goals Abb M2015 Controller Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Abb M2015 Controller Manual
 - Fact-Checking eBook Content of Abb M2015 Controller Manual
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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