

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



**IMPORTANT:** Carefully read all instructions and safety information about this device before operation. Please save this document with the homeowners 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:** Errors performed incorrectly can cause fires. Use this device only in a certified wall box. Recommended: (Carlon) 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 this 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/freeathome](http://www.abb.com/freeathome).

### INSTALLATION

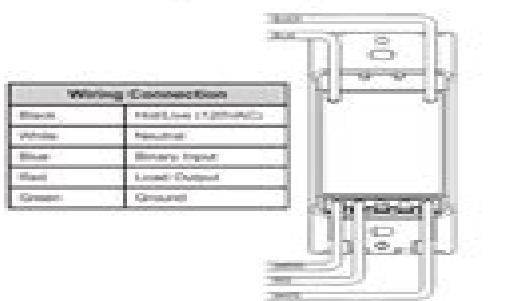


**WARNING: SHOCK HAZARD:**

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 diagrams.)

As (Single-Location Installation)  
Or 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.

**NOTE:** If the device does not turn on, please refer to the Troubleshooting section.

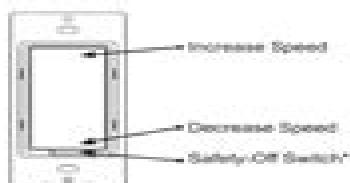
**Replacing the Rocker and Bezel:** The rocker and bezel of the device can be exchanged. Turn the power OFF. Disconnect the bezel with a screwdriver. Turn the power ON after the rocker and bezel have been assembled.

### FC-3.1 Technical Data

Operating Voltage	120 VAC, 60 Hz
Connections	Hot and Neutral Wires Required
Wireless Transmission Protocol	IEEE802.11b/g/n (2.4GHz + 5.8GHz) IEEE802.15.4
Ambient Operating Temperature	32°F to 100°F (-20°C to 40°C)
Fan power output power	20W (maximum)

\*Recommended for a fan size of 70-in (180 cm) 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 this switch to the fan does 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 same functions. 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/freeathome](http://www.abb.com/freeathome).

1. To complete setup, you will need the ABB-free@home System Access Point (SyncAP) and a computer (laptop, desktop, or tablet computer).
2. Walls, ceilings, and electrical equipment can affect wireless communication. Interference from metal components or other large metal objects. Electrical cables from the power, high-frequency systems (such as computers, medical monitors, audio systems, and video systems) should be at least 3 feet from this device.
3. Without first power, the device is in discovery mode for 30 minutes. This is a joined state for the SyncAP to see and connect to the device. During this time, the user can log in to the SyncAP 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. They 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 pushes to do safely.

Follow these steps to repeat:

1. Turn the power OFF at the circuit breaker.
2. Turn the power ON after pressing the bottom half of the rocker for at least 15 seconds, until the LED light stops flashing.
3. Return to step 3-4 of SETUP AND COMMUNICATION to connect the device to a new network.

### Cooling

Install according to national and local electrical codes.

### Grounding

Without Power to the ground connection in the wall box, the National Electrical Code (NEC) allows a control to be installed as a high-impedance On/Off. This is a non-metallic, high-impedance receptacle or attachment with nonmetallic supports. (NEC 210.19) The circuit is protected by a ground fault circuit interrupter (GFCI). Without installing a control, be sure to tape or remove the green wire before connecting the control to the wall box.

### Cleaning:

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

### PRODUCT INFORMATION

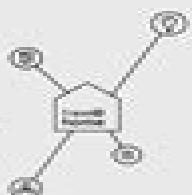
This device complies with part 15 of the FCC Rules and Industry Canada's general standard for radio frequency (RF) emissions. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. The manufacturer 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 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 from the circuit used by the receiver. • Consult the dealer or an experienced radio/TV technician for help.

### Customer Service

1-800-876-7600  
7:00 am - 5:00 pm, CST, Monday - Friday  
[tech\\_support@abb.com](mailto:tech_support@abb.com)

### Technical Support

1-866-388-1221, Option 1  
7:00 am - 5:00 pm, CST, Monday - Friday  
[tech\\_support@abb.com](mailto:tech_support@abb.com)



For information about the many functions of this device, see the system manual at [www.abb.com/freeathome](http://www.abb.com/freeathome)

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# Abb M2015 Controller Manual

**Yicheng Fang**

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**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](#)  
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**ABB Controller**, 2024

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