

HS-FC200+ Z-Wave Plus Fan Controller

OVERVIEW

HS-FC200+ is a Z-Wave controllable wired fan controller for use with 3-speed or 4-speed ceiling fans. See [HomeSeer.com/lighting](https://www.home-seer.com/lighting) for a complete list of features and applications.

WARNING RISK OF FIRE | RISK OF ELECTRICAL SHOCK | RISK OF BURNS

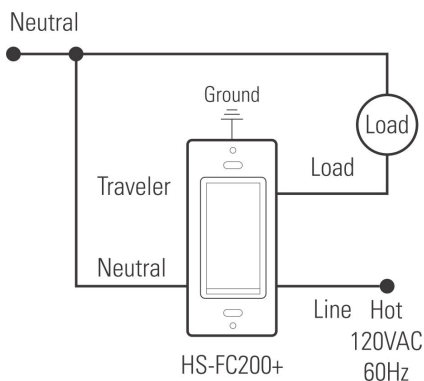
DO NOT USE THIS SWITCH TO CONTROL ANYTHING THAT MAY PRESENT A HAZARD WHEN CONTROLLED REMOTELY OR USED IN AN UNATTENDED FASHION. DO NOT USE WITH MEDICAL AND LIFE SUPPORT INSTRUMENTS.

INSTALLATION

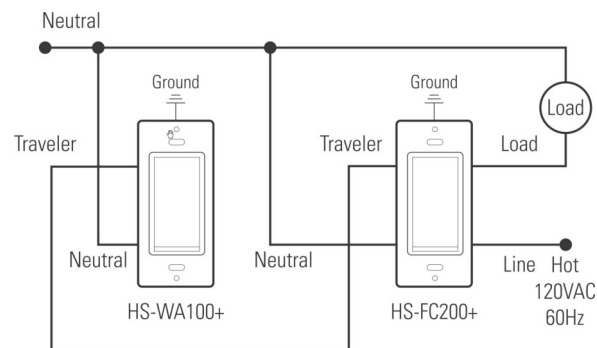
Tools required: medium standard and Phillips head screwdrivers, wire strippers/cutters

- 1 Shut off power to the circuit at the circuit breaker or fuse box. **VERIFY power is OFF before continuing!**
- 2 Remove existing fan controller wall plate and mounting screws. Carefully remove the existing fan controller from the electrical box but leave the wires connected.
- 3 This companion switch should only be connected to these three wires:
 - NEUTRAL - White (this wire is often tied to other neutral wires and may require a jumper to connect with the HS-FC200+)
 - GROUND - Green or Bare
 - TRAVELER - Red/Other (only used in 3-way circuits)
- 4 Disconnect the wires from the existing switch and attach those wires to the HS-FC200+ using the screw terminal connectors on the back with the following procedure:
 - 1 Strip 16 mm (5/8") insulation from each wire*.
 - 2 With a screw driver, loosen each screw terminal by rotating the screw counter-clockwise a few turns until resistance is felt.
 - 3 There are two holes on the back of the switch near each screw terminal. Insert the stripped wire into one of these holes and tighten the screw terminal to secure the connection. Connections should be snug.

***all wires should be 14 AWG or larger rated at 80°C or higher. Tightening torque should be 12 lbf-in (14kgf-cm).**
- 5 Carefully install the wired switch back into the electrical box and reattach the trim plate.



Single Pole circuit



3-way circuit

COMPATIBILITY

Your new HomeSeer fan controller is designed to work with 3 or 4 speed AC powered ceiling fans that do not have a light with the fan or installations where you have a separate wall switch for the fan and the light. In the event that you have a light with the fan in the same circuit/switch, the light will dim or turn off whenever you set the fan at lower speed than the highest position. HS-FC200+ is a Z-Wave Plus certified and is ready to be used with a variety of home automation controllers. The special features of this switch are supported using a number of different Z-Wave technologies. HomeSeer systems are designed to support these technologies and will provide the most seamless operation of these features. However, other systems may also provide satisfactory results depending on the level of support they provide for these same technologies. If you're using a non-HomeSeer system, be sure to check our support page (<https://homeseer.com/support-home/>) for further details.

Z-WAVE INCLUSION

Inclusion/Exclusion: Add or remove the device into your network by a Z-Wave certified controller. HS-FC200+ supports the latest S2 security and SmartStart offered by Z-Wave certified controllers. If your controller supports S2 or SmartStart, please refer to the user guide of the controller for detailed instructions on adding or removing devices to/from the network. You should be able to add HS-FC200+ into your network using the unique QR code or the DSK 5 digit pin located on the product or packaging. In addition, the device can be added or removed using the following 2-step procedure:

- 1 Put your Z-Wave controller into inclusion mode. Consult your controller manual if you're unsure how to do this.
[HomeSeer users: press "Add Device" on your Z-Tool+ mobile app](#)
- 2 Tap the paddle of your new HomeSeer switch to begin the inclusion process. This will take a few moments to complete.
[HomeSeer users: Be sure to name the switch and assign it to a location using Z-Tool+ when inclusion is done](#)

MANUAL RESET - To be used only in the event that the network primary controller is lost or otherwise inoperable.

(1) Turn switch on by tapping the top of the paddle once. **(2)** Quickly tap top of the paddle 3 times. **(3)** Quickly tap bottom of paddle 3 times. **(4)** If light turns off and then on again, switch is reset. If not, repeat manual reset.

ASSOCIATION - This product supports association group #1 for lifeline communication. Refer to your controller manual for instructions on setting the lifeline association.

OPERATION

Your new HomeSeer switch may be operated locally (manually) or remotely using a Z-Wave compatible controller or home automation system.

Local Control:

- Press (tap) the top of the paddle to power the load
- Press (tap) the bottom of the paddle to cut power to the load
- Press & hold or single-tap the top or bottom paddle to increase or decrease fan speed. The LED indicators will light to represent fan speed level.

Remote Control:

- On / Off control is available remotely. Consult your controller manual for details.
[HomeSeer users: this switch creates 3 devices; a root device, central scene device and control device. The root device may be used to manage Z-Wave settings. The central scene device may be used as a trigger for events. The control device will send on / off commands to the switch.](#)

ADVANCED FEATURES

Your new HomeSeer switch includes advanced features that may be accessed with HomeSeer (and other*) systems.

Multi-tap triggering - Tapping the top or bottom of the paddle 1, 2, 3, 4 or 5 times in rapid succession may be used as a trigger to launch HomeSeer events. In the example below (using HomeSeer HS3 software), the trigger is set to the top of the paddle being pressed 3 times. You must use the trigger "device had its value set to" and apply it to the "Central Scene" device. Note that "Scene 001" refers to the top of the paddle.

IF
 is set to

In this example, the trigger is set to the bottom of the paddle (Scene 002) being pressed 5 times.

IF
 is set to

Note that pressing the top or bottom of the paddle once will also control the attached load.

RGB LED Indicator - The color of the LED indicator may be controlled with Z-Wave commands using HS3 event actions.

In **normal mode**, the LED indicator glows to reflect the on/off status of the connected circuit using a palette of 7 possible colors (red, green, blue, cyan, magenta, yellow, white). HS-FC200+ switches will operate in normal mode by default. In the example below (using HomeSeer HS3 software), this event action will set the normal mode color of all HS-FC200+ switches (and all other 200 Series dimmers and switches) to Magenta.

THEN
 Choose A Device:
Set HS-WX200 Action
 Action Type:

In **status mode**, the LED indicator can be controlled to reflect the status of nearly anything in the home. In the example below (using HomeSeer HS3 software), this event action will change the LED indicator of the First Floor Kitchen Overhead Light to blink red.

THEN
 Choose A Device:
Set HS-WX200 Action
 Action Type: LED Color: Blink:

Switching between normal mode and status mode: HS-FC200+ switches will operate in normal mode by default. Sending a color status command to the LED will automatically enable status mode. The switch will remain in status mode until its LED status is set to "Off". In the example below (using HomeSeer HS3 software), this event action will clear status from all switches (and dimmers) on the network, causing all devices to revert to normal mode.

THEN
 Choose A Device:
Set HS-WX200 Action
 Action Type: LED Number: LED Color:

COMPATIBILITY (with Non-HomeSeer systems)

The special features of this switch are supported using a number of different Z-Wave technologies. HomeSeer systems are designed to support these technologies and will provide the most seamless operation of these features. However, other systems may also provide satisfactory results depending on the level of support they provide for these same technologies. If you're using a non-HomeSeer system, use the information below and consult with your system manufacturer to determine the level of compatibility.

Multi-tap Triggers: This feature uses the Z-Wave CENTRAL SCENE command class. If the system supports this command class AND utilizes a general interrogation process for inclusion, this feature should work. However, if the system employs an inclusion process based on the Z-Wave product ID, then specific product support would need to be implemented.

Instant Status: This feature is supported using a Z-Wave MULTILEVEL REPORT and the CENTRAL SCENE command class. All Z-Wave certified systems should support the MULTILEVEL REPORT feature.

RGB LED Control: This feature is supported using Z-Wave parameter commands. Most Z-Wave certified systems provide a method for issuing parameter commands to individual products. HomeSeer systems simplify the use of this feature by providing event actions to send parameter commands. A complete list of parameters may be found on the next page.

*Be sure to check our support page (<https://homeseer.com/support-home/>) for information about integrations with other smart hubs and controller.

Z-Wave Parameters				
Parameter	Description	Bytes	Value	Default
3	Sets bottom LED operation (in normal mode)	1	0=Bottom LED ON if load is OFF, 1=Bottom LED OFF if load is OFF	1
4	Sets paddle's load orientation	1	0=Top of Paddle turns load ON, 1=Bottom of Paddle turns load ON	0
5	Sets fan type	1	Possible values: 0=3-speed, 1=4-speed	0
13	Sets LED indicator mode of operation	1	0=Normal mode (load status), 1=Status mode (custom status)	0
14	Sets the Normal mode LED color	1	Possible values: 0-6 0=White, 1=Red, 2=Green, 3=Blue, 4=Magenta, 5=Yellow, 6=Cyan	0
21	Sets the Status mode LED 1 (bottom) color	1	Possible values: 0-7 0=Off, 1=Red, 2=Green, 3=Blue, 4=Magenta, 5=Yellow, 6=Cyan, 7=White	0
22	Sets the Status mode LED 2 color			
23	Sets the Status mode LED 3 color			
24	Sets the Status mode LED 4 color			
30	Sets the Blink frequency for All LEDs in Status mode	1	Possible values: 0, 1-255 0=No blink, 1=100ms ON then 100ms OFF	0
31	Sets LED(s) 1-4 to Blink in Status mode	1	Bitmask defines specific LEDs to enable for blinking: Note: this decimal value is derived from a hex code calculation based on the following: Bit 0=LED 1, Bit 1=LED 2, Bit 2=LED 3, Bit 3=LED 4 IE: value of 1=first LED, 8=LED 4	0

SPECIFICATIONS

Power	Requirements	120VAC / 60 Hz
Max Load	Fan Motor	2.5 amps (300 watts)
Z-Wave	Frequency	908.4 / 916 MHz
	Range	100 ft. (open air)
Certifications	UL (US, Canada), FCC/IC, Z-Wave Plus	

WARRANTY

HomeSeer warrants to the original purchaser that this product, for the warranty period, will be free from material defects and workmanship. This warranty is subject to proper installation and operation of the product. HomeSeer's sole obligation, under this warranty, is to repair, replace or correct any defect that was present at the time of delivery. This warranty does not extend to consequential or incidental damage to other products that may be used with this product. Warranty claims must be submitted in writing directly to HomeSeer at HomeSeer.com. Warranty period: limited 2 years from date of purchase

FCC statements:

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.

NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications or changes to this equipment. Such modifications or changes could void the user's authority to operate the equipment.

IC statements:

This device complies with Part 15 of the FCC Rules and with RSS of Industry Canada. 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.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

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

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

This product employs or practices certain features and/or methods of the following U.S. Patents: U.S. Patent Nos. 6,891,838, 6,914,893 and 7,103,511.