LEVITON D24SF Fan Speed Controller User Guide

LEVITON D24SF Fan Speed Controller User Guide

Contents

Welcome

Leviton's Decora Smart Wi-Fi 2nd Generation Fan Speed Controller makes it easier than ever to make your ceiling fan smart. Use your voice with Amazon Alexa, Google Assistant, or Apple Siri—or use your smartphone or tablet to control with the My Leviton app, even when away from home. Use built-in scheduling to control your fan at specific times of the day, or at sunrise or sunset.

The Decora Smart Wi-Fi Fan Speed Controller looks right at home with your other Decora brand in-wall devices, and features intuitive on/ off and fan speed level control.

Combine with other Decora Smart Wi-Fi devices to create a Whole Home experience with room scenes, activities, and schedules for connected lights and fans to match your lifestyle.

Safety first

WARNINGS:

- **TO AVOID FIRE, SHOCK, OR DEATH, TURN OFF POWER** at circuit breaker or fuse and test that power is off before wiring!
- **TO AVOID FIRE, PERSONAL INJURY OR PROPERTY DAMAGE, DO NOT** install to control a receptacle or transformer operated appliance.
- This product is to be installed and/or used in accordance with electrical codes and regulations.
- For indoor use only.
- If you are unsure about any part of these instructions, consult an electrician.

CAUTIONS:

- For use on ceiling paddle fans with split-capacitor or shaded pole motors only. Please refer to manufacturer's instructions or rating label on the motor to confirm type. Use with any other types of motors or equipment may cause overheating and/or damage to the motors or equipment.
- Use only one (1) Fan Speed Control per load. The switch(es) will turn ON the fan at the speed level selected at

the control.

- To avoid overheating and possible damage to this device and other equipment, DO NOT install to control a receptacle, fluorescent lighting, a motor or a transformer-operated appliance other than appropriate ceiling fans.
- The Decora Smart D24SF Fan Speed Controller is not compatible with standard 3-way or 4-way switches. It must be used with wired Decora® Smart DD00R or DD0SR Companions or wireless DAWDC or DAWSC Anywhere Companions for multi-location control.
- Maximum wire length to all installed wired companion devices cannot exceed 300 ft (90m).
- Save this instruction sheet. It contains important technical data along with testing and troubleshooting information which will be useful after installation is complete.
- Recommended minimum wall box depth is 2-3/4 in.
- Use this Fan Speed Controller with copper or copper-clad wire only.
- Leviton Wi-Fi enabled devices rely on Wi-Fi communication. For customers looking to install a large number of devices it is recommended to consult the wireless network's access point specifications to determine the maximum number of supported Wi-Fi devices. In some cases, for example large installations, it may be necessary to upgrade to newer high performance wireless grade access points to ensure proper operation.

ADDITIONAL RATINGS:

- Purpose of control: Operating Control
- Action Control Type: 1
- Pollution Degree: 2
- Impulse Voltage: 2500V
- Disconnection Type: Micro

Your Fan Speed Controller works with:

- For use with one or more ceiling paddle fans with split-capacitor or shaded pole motors, not to exceed 1.5A maximum load.
- Compatible with pull chain ceiling fans without electronic control.
- Not for use with exhaust type fans.
- Not for use with lighting loads or combined ceiling fan light kits.
- Not for use with aluminum wire.
- Installation in metal wall boxes or with metal wall plates may result in poor RF performance.
- For indoor use only.
- Additional self-service support options can be found in the My Leviton app or at **decorasmartsupport.leviton.com**

RATINGS	
Fan Motor Input Voltage	120VAC, 60Hz
Operating Temperature	0°C – 40°C (32°F – 104°F)
Operating Humidity	10% – 90% non-condensing
Storage Temperature Range	-10°C – 85°C
NETWORK	
Wi-Fi	802.11 b/g/n networks – 2.4GHz only
Security	WPA, WPA2, or WPA3 security, or open
Bluetooth	v5.0
MY LEVITON APP	
iOS	version 12.0 or later
Android	version 8.0 or later

Features

Fan speed bar

Rocker

Speed indicator lights

Status LED

Air gap switch
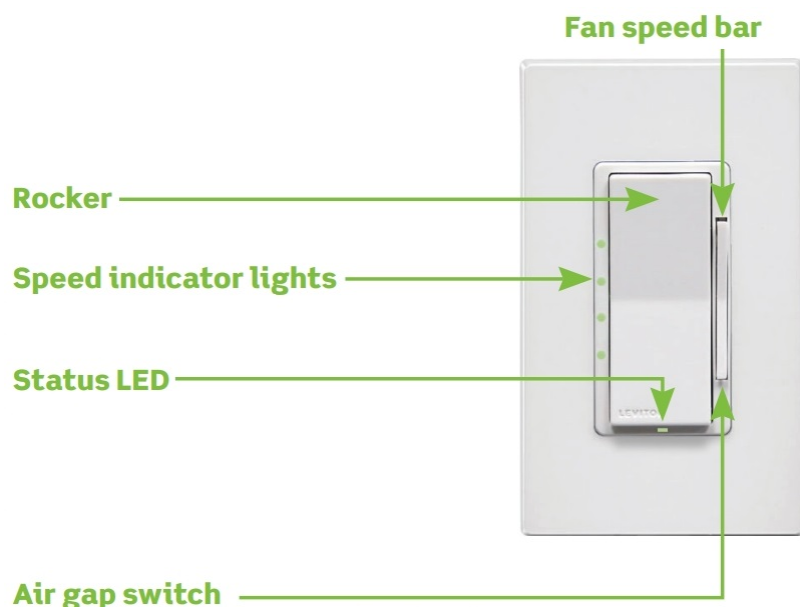
- **Fan speed bar**

  Manually adjust speed.

- **Rocker**

  Manually turn fan on/off

- **Speed indicator lights**

  Shows fan speed when adusting levels.

- **Status LED**

    - Illuminates when the lights are OFF so you can find the device in the dark.

    - Provides connectivity and device status feedback.

    - Advanced settings available in the My Leviton app

- **Air gap switch**

  Will stop power to the fan. Gently pull bottom out until a click is heard. Power to the fan and indicator lights will turn off. After servicing is complete, push back in for normal operation.

    - Quiet fan controller with 4 speeds: max, high, medium, low, and off.

    - Control fan speed using the My Leviton app, schedule, voice, or the Apple Home app.

    - Voice control works with Hey Google, Amazon Alexa, or Apple Siri.

    - Support for 3-way/multi-location with Wired Companions and Wireless Anywhere Companion devices.

    - Color change kits in ivory, light almond, black, gray, brown, and white.

Before you install

Installation requires electrical knowledge.
If you are unsure of any steps, consult an electrician.

Things to consider:
To control the Fan Speed Controller from more than one location such as in a 3-way or multi-way, you will need either a wired DD00R or DD0SR Companion device, or a wireless DAWDC or DAWSC Anywhere Companion device. See Companion instructions for connection directions.
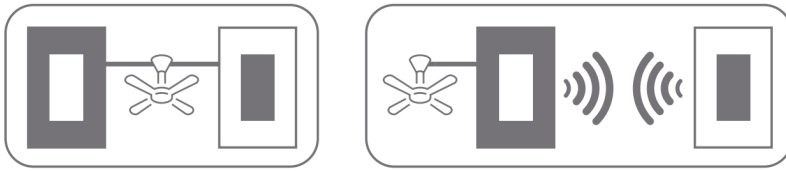
What you need to make it work:

- A 2.4GHz Wi-Fi network with high speed internet.
- An iOS (12.0 or later) or Android (8.0 or later) mobile device.
  NOTE: Make sure Wi-Fi and Bluetooth are enabled on your mobile device.
- A My Leviton cloud account (set up through the My Leviton app).

Identify your wires

WARNING: TO AVOID FIRE, SHOCK, OR DEATH, turn off power at the circuit breaker.

Check your wall box:

1. Remove wallplate and disconnect existing switch.
2. Restore power. Carefully test wires with voltage tester to find the Line (Hot) wire.
3. Turn off power at the circuit breaker.
4. Mark the wires as shown below. Please note Neutral wires are required to operate this device.
   Quick tip: Neutral wires are typically white and will be found bundled inside the electrical box.
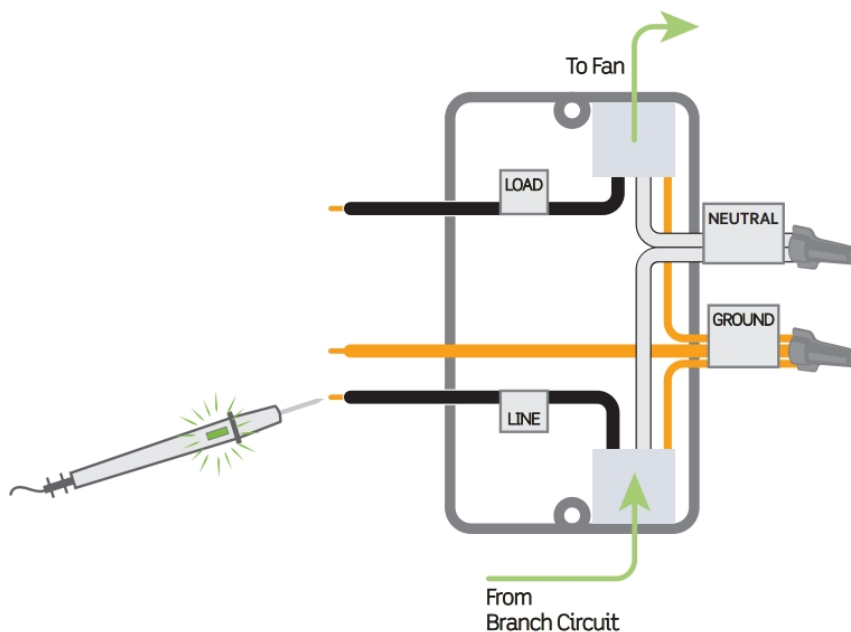
If your wall box looks different, call an electrician.

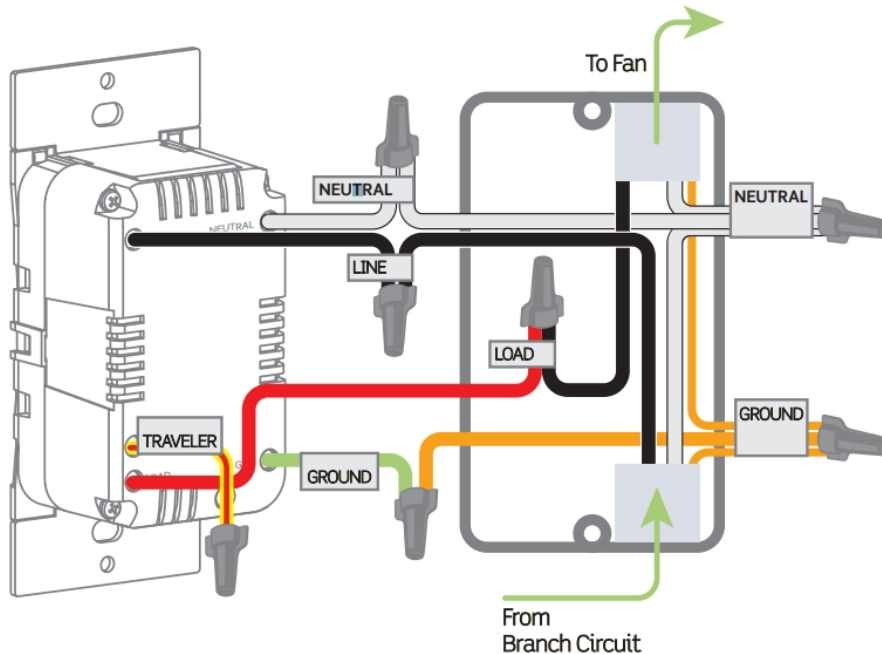**Wire your Fan Speed Controller**

Single pole installation:

1. Work only one connection at a time.

2. Connect wires as shown using the included wire connectors.

NOTE:

- Neutral connection is required.
- The YELLOW/RED Traveler wire is only used in hard-wired 3-way applications. Remember to put a wire connector on the YELLOW/RED Traveler even if not in use.

If your wall box contains a different wiring configuration, contact Leviton's Technical Support team or consult an electrician.

Test and install

1. Restore power. Status LED should flash GREEN.
2. After powering on the Fan Speed Controller to confirm it is receiving power, turn the power back off again at the breaker prior to completing the installation.
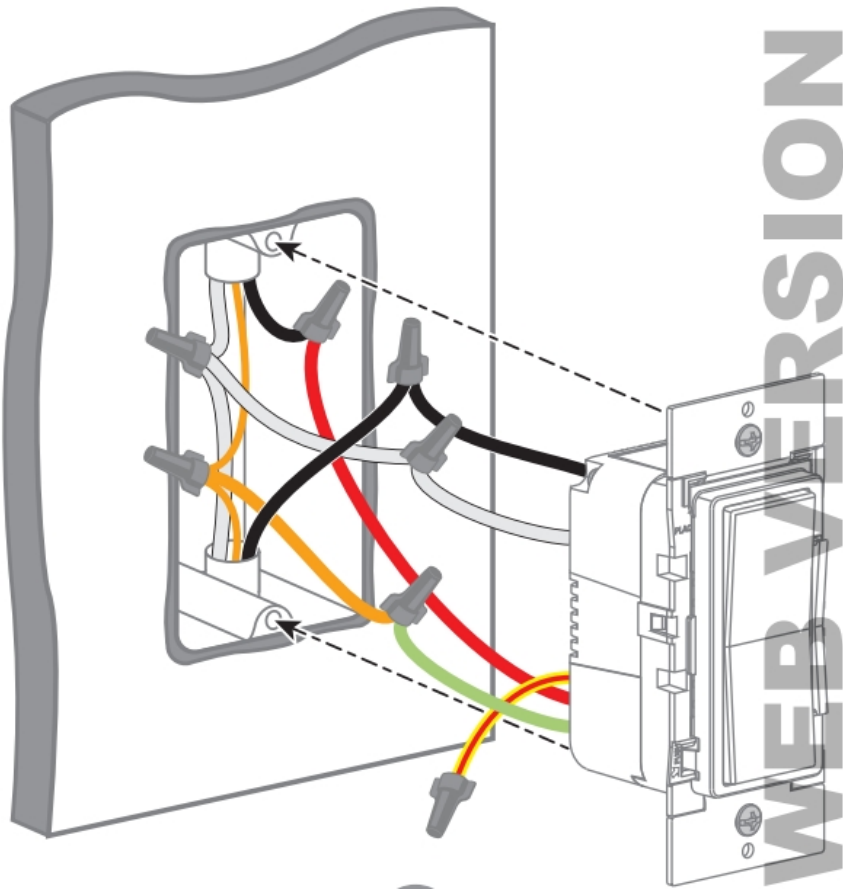
Turn off power at the circuit breaker before screwing in your Fan Speed Controller.

3. Gently push wires into wall box. Screw Fan Speed Controller to box.
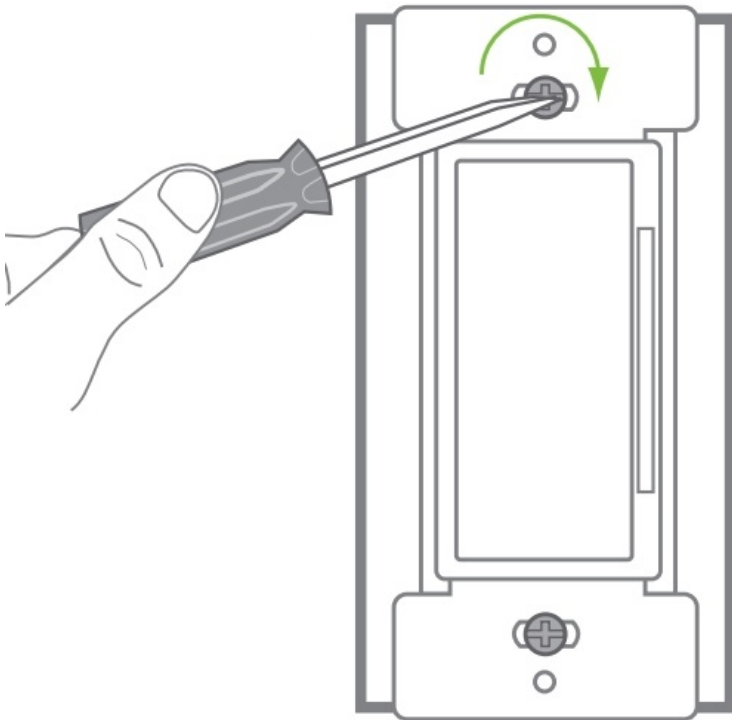
4. Snap on Decora® wallplate and restore power.

Once power is restored, the status LED will blink GREEN, indicating your device is in setup mode. See page 15 if your status LED is not blinking GREEN.
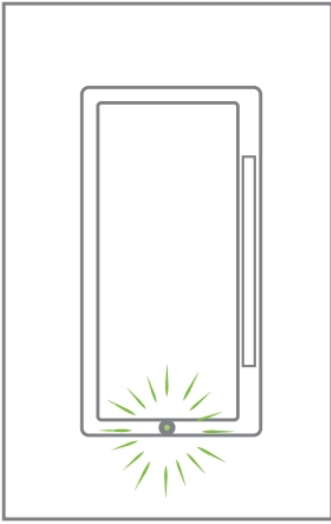
Congratulations!
Your Decora Smart Fan Speed Controller is ready to control your fan speed level.

Get the app

To download the app, visit **my.leviton.com** and select the link or scan the below QR code for your device.

My Leviton
Leviton Manufacturing Co. Inc.

What's New   Version History
Version 3.0.29   2w ago
IMPROVEMENTS
A modernized and improved look, with the option to
customize icons for your devices and activities.   more

Preview

GET IT ON
Google Play
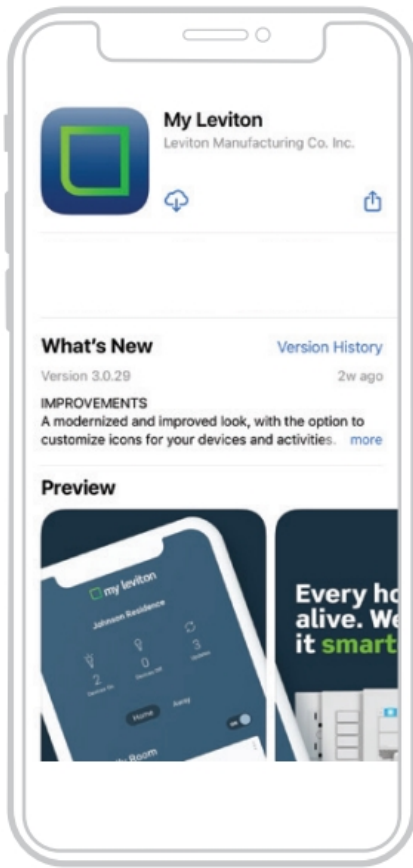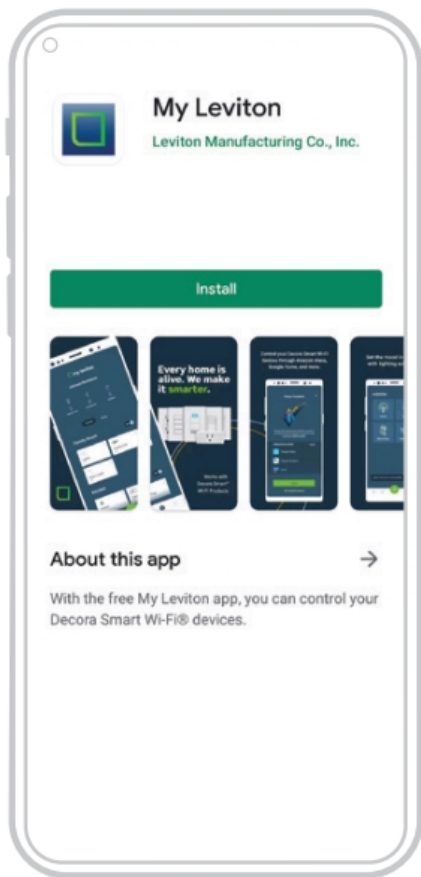
Device setup

- Decora Smart Wi-Fi 2nd Gen devices can be connected to the My Leviton service, Apple HomeKit, or both.
- For voice control with Amazon Alexa or Google Assistant, you will need to set up the device with My Leviton.
- For voice control with Siri, you will need to connect your device to Apple HomeKit. See page 14 for instructions on how to add your device to Apple HomeKit.

Add your device to My Leviton

1. Make sure the device is in setup mode (status LED should be blinking GREEN). If the status LED is not blinking GREEN, see page 15 for instructions on how to put the device in setup mode.
2. Launch the My Leviton app.
3. Log in or choose "Sign Up" for an Account.
4. Follow the instructions on the screen.
5. Once logged in, tap the "+" in the upper right corner and select "Add Device."
6. Follow the app instructions to add your device and connect it to your home Wi-Fi network.

Test My Leviton app control

1. Open the My Leviton app.

2. Tap icon to turn ON/OFF.

Quick tips

- The My Leviton app includes many features such as: scheduling, remote control, vacation mode, auto-shutoff, room scenes, and advanced options.
- Additional settings include: pre-set speed, return to last speed, min/max speed, and speed level LED options.
- Self-service support options can be found in the My Leviton app or at **decorasmartsupport.leviton.com**.

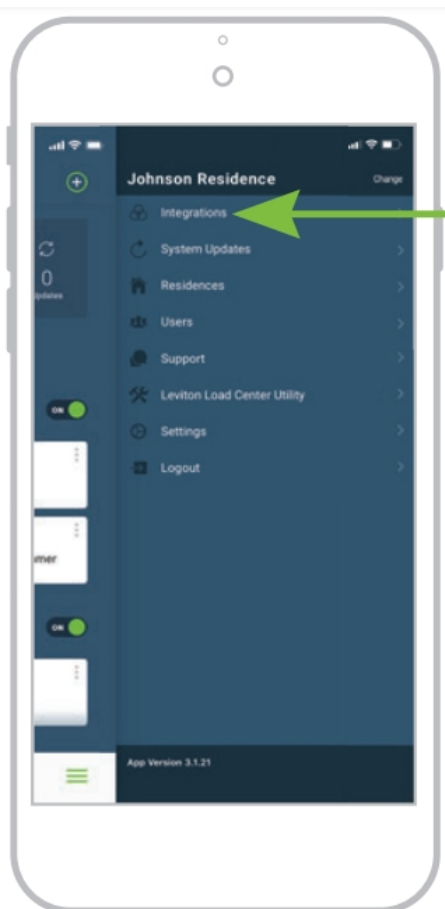**Connect to My Leviton partners (optional)**

Visit **my.leviton.com** for a complete list of compatible smart home products.

1. Tap menu icon in lower right corner.

2. Tap Integrations, locate the desired service, select it, and follow the instructions.

Add your device to Apple HomeKit (optional)

NOTE: Skip step 1 if your device is already enrolled to My Leviton and on your Wi-Fi network.

1. Make sure the device is in setup mode (status LED should be blinking GREEN). If the status LED is not blinking GREEN, see page 15 for instructions on how to put the device into setup mode.
2. Using an iOS device, open the Apple Home app and select "Add Accessory".
3. Make sure your Decora Smart Wi-Fi Fan Speed Controller is model number D24SF. Locate and scan the HomeKit setup code on the device or on the front page of this Getting Started Guide.
4. Follow the instructions in the Apple Home app.
5. Once the device is set up, you will be able to voice control your Decora Smart Wi-Fi Fan Speed Controller with Apple Siri.

Diagnostic LED

| COLOR	STATUS
Amber	Not connected to Wi-Fi.
Red	Connected to Wi-Fi but not able to connect to the My Leviton cloud.
Green/Amber, Alternating	Connected to Wi-Fi and My Leviton cloud but unable to set the time from the in ternet.
Green	Connected to Wi-Fi and My Leviton cloud is working properly.

Status LED

COLOR	ACTIVITY	STATUS
Green	Flashing	In setup mode and ready to be added to a Wi-Fi network.
Green	Slow Blink	Connecting to a Wi-Fi network on power up.
Green or Off	Solid	Normal operation. Can be configured in a setup.
Amber	Slow Blink	Device is not connected to the Wi- Fi network, but is attempting to reconnect.
Green/ Amber	Alternating Blink	Device is in wireless Anywhere Companion Pairing mode.
Red	Blink	Wireless Anywhere Companion devices have unpaired or at m ax number of paired devices.
Green/Red/ Amber	Alternating Blink	Identify feature triggered from the My Leviton app.

Please see **My.Leviton.com** support for additional diagnostic assistance.

Setup mode

1. Hold the top rocker for 7 seconds until the status light turns AMBER, then release.
2. The status light will flash GREEN. The device is now in setup mode.
   NOTE: To exit, hold the top rocker for 7 seconds while in Setup mode.
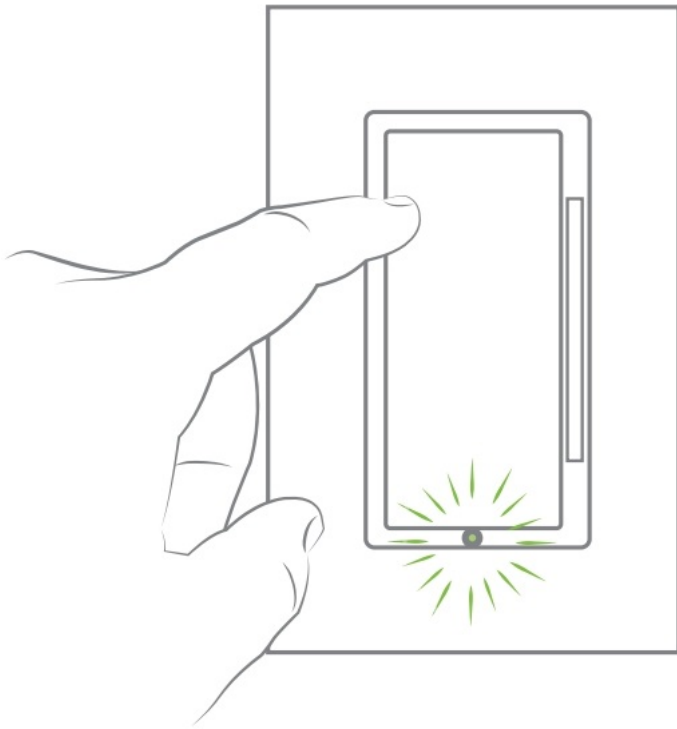
Factory default reset

1. Hold the top rocker for 14 seconds.
2. After the first 7 seconds, the status light will turn AMBER. Continue to hold.
3. After 7 more seconds, the status light will quickly flash RED/AMBER.
4. Release the top rocker and the device will reset.

What to do if…

The fan turns on but does not run as fast as it should:

- Use the Fan Speed Bar to select the MAX (100%) setting.
- If the fan has a pull chain or similar speed control, make sure it is at 100% and then only use the Decora Smart Fan Speed Controller to set the Fan's Speed.

Intermittent operation:

- Confirm the load does not exceed its ratings.
- Confirm the Neutral wire is connected.

Not connected to Wi-Fi:

- If your device is setup in the My Leviton app, select your device, then select "Device Settings." On the "Device Settings" screen select "Reconfigure Wireless."
- Follow the prompts to reconfigure your device and update the Wi-Fi settings.

How do I clean my device?

- To clean use a damp cloth with mild soap. DO NOT use disinfecting products, including foggers, sprays or other types of atomized cleaning agents.

Visit **leviton.com/decorasmar**t or contact Technical Services for additional help.

Limited 2 Year Warranty & Exclusions

For Leviton's limited product warranty, go to **www.leviton.com**. For a printed copy of the warranty, call 1-800-824-3005.

FOR CANADA ONLY
For warranty information and/or product returns, residents of Canada should contact Leviton in writing at Leviton Manufacturing of Canada ULC to the attention of the Quality Assurance Department, 165 Hymus Blvd, Pointe-Claire (Quebec), Canada H9R 1E9 or by telephone at 1 800 405-5320.

FCC COMPLIANCE STATEMENT

The enclosed device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (i.) This device may not cause harmful interference (ii.) This device must accept any interference received, including interference that may cause undesired operation. Any changes or modifications not expressly approved by Leviton could void the user's authority to operate this equipment. 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 or more 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.

FCC CAUTION
Any changes or modifications not expressly approved by Leviton Manufacturing Co., Inc., could void the user's authority to operate the equipment.

FCC SUPPLIER'S DECLARATION OF CONFORMITY
Model D24SF – Wi-Fi Fan Speed Controller is manufactured by Leviton Manufacturing Co., Inc. 201 N. Service Road, Melville, NY 11747. **www.leviton.com** 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.

IC STATEMENT
This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

RF EXPOSURE AND CO-LOCATION
To comply with FCC OET Bulletin 65 and ISED RF exposure limits for general population and uncontrolled exposure, this device shall be installed and operated with a minimum distance of 7.9 inches (20 cm) between the

radiator and your body. Also, must not be co located or operated in conjunction with any other antenna or transmitter.

Copyright and Trademark Information

Decora and Decora Smart are the registered trademarks of Leviton Manufacturing Co., Inc., registered in the U.S., Canada, Mexico and China.

Google and Google Play are trademarks of Google LLC. Alexa, and related logos are trademarks of **Amazon.com**, Inc. or its affiliates. Apple®, HomeKit®, and Siri® are trademarks of Apple Inc., registered in the U.S. and other countries. IFTTT and the Wi-Fi CERTIFIED logo are trademarks of their respective owners and any use of such marks by Leviton is under license.

Use of the Works with Apple badge means that an accessory has been designed to work specifically with the technology identified in the badge and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.

Use herein of other third party trademarks, service marks, trade names, brand names and/or product names are for informational purposes only, are/may be the trademarks of their respective owners; such use is not meant to imply affiliation, sponsorship, or endorsement. No part of this document may be reproduced, transmitted or transcribed without the express written permission of Leviton Manufacturing Co., Inc. Copyright 2021 Leviton Mfg. Co., Inc.

If you need help…

ONLINE
decorasmartsupport.leviton.com

CHAT
www.leviton.com/support

EMAIL
dssupport@leviton.com

CALL
1-800-824-3005 (USA)
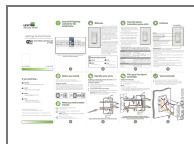1-800-405-5320 (Canada)

Leviton Manufacturing Co., Inc.
201 North Service Road, Melville, NY 11747
© 2021 Leviton Manufacturing Co., Inc. All rights reserved.
Specifications subject to change at any time without notice.

LEVITON®
decora smart®

Documents / Resources

LEVITON D24SF Fan Speed Controller [pdf] User Guide
D24SF, Fan Speed Controller, D24SF Fan Speed Controller