

## senctrl AVS2000

# Senctrl Automatic Vacuum Switch AVS2000 Instruction Manual

Your guide to efficient and automated dust collection for power tools.

## 1. OVERVIEW

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The Senctrl Automatic Vacuum Switch (AVS2000) is an innovative device designed to automate the operation of your shop vacuum or dust collector in conjunction with your power tools. It features three operating modes: Auto, Off, and On, providing flexibility for various workshop needs. This switch helps prevent circuit overloads with a 1-second delayed start for the vacuum and ensures thorough dust clearing with a 7-second delayed shut-off after the power tool is turned off. Constructed with durable PC+ABS V0 grade flame retardant material, the AVS2000 is built for longevity and safety.



Figure 1: Senctrl Automatic Vacuum Switch AVS2000, showing its compact design and power outlets.

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Video 1: Official overview of the Senctrl Automatic Vacuum Switch, demonstrating its features and functionality.

## 2. SAFETY INFORMATION

- **Maximum Rating:** Ensure that the total motor rating of connected devices does not exceed 120V/15A, 50/60Hz, or 1875W. This includes both the power tool and the vacuum cleaner.
- **Indoor Use Only:** The AVS2000 Switch Box unit is intended for indoor use in dry locations only. Avoid exposure to moisture or extreme temperatures.
- **Circuit Overload:** The unit may utilize more than one live circuit. Do not connect hazardous devices to the 'VAC' receptacle.
- **Mains Circuits:** Do not connect to mains circuits that have a capacity greater than 15 Amps.
- **Read Instructions:** Always read and understand the operating instructions thoroughly before using the device.

## 3. SETUP

Follow these steps for proper installation and initial setup of your AVS2000:

1. **Plug in the AVS2000:** Plug the AVS2000 into a standard 15A/120V wall outlet.
2. **Connect Vacuum:** Plug your vacuum cleaner into the "VAC OUTLET" on the AVS2000. Ensure the vacuum's power switch is set to the ON position.
3. **Connect Power Tool:** Plug your power tool (e.g., table saw, miter saw) into the "TOOL OUTLET" on the AVS2000.
4. **Set Mode Switch:** Set the Mode Switch on the AVS2000 to the "AUTO" position for automated operation.

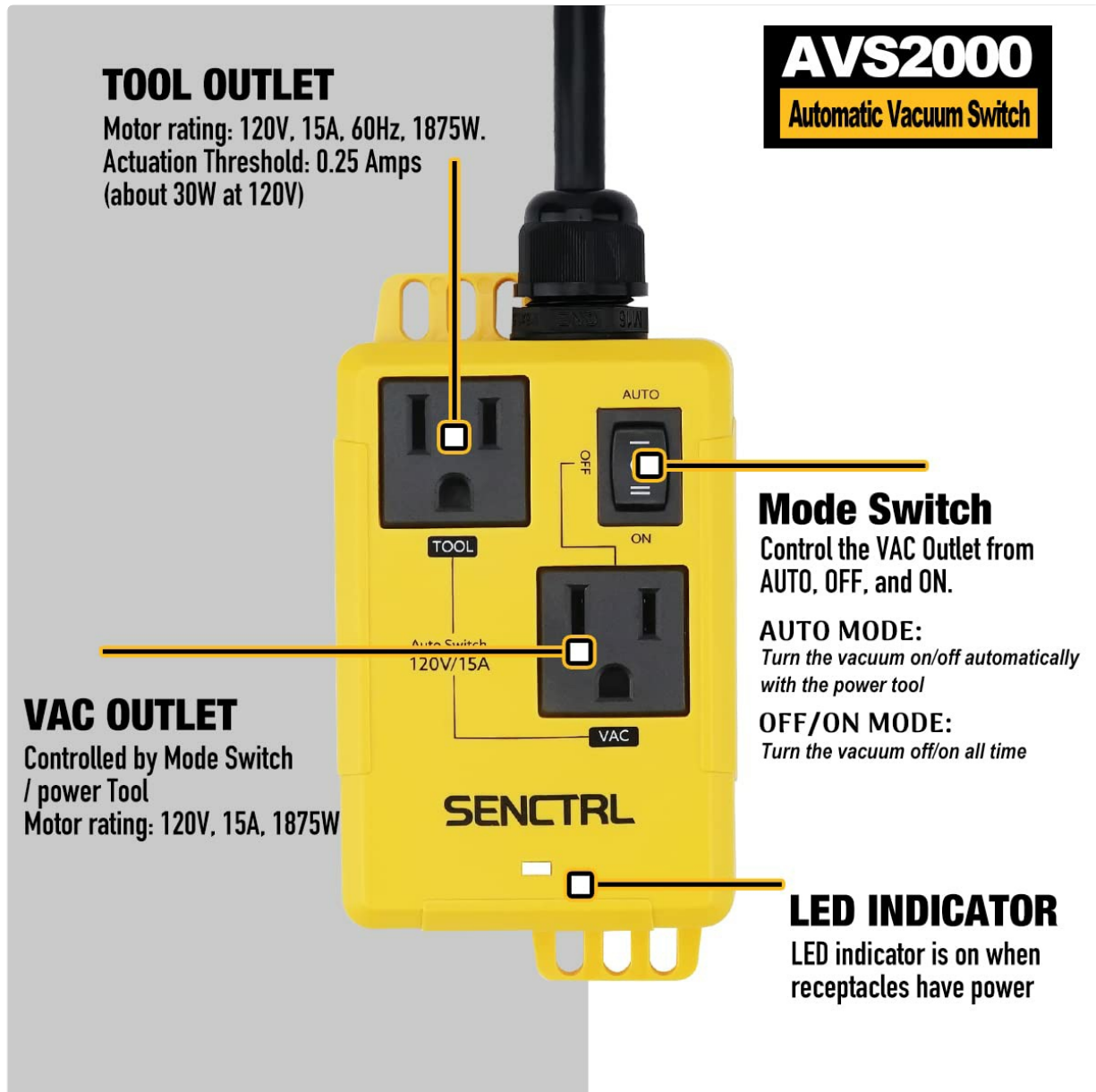
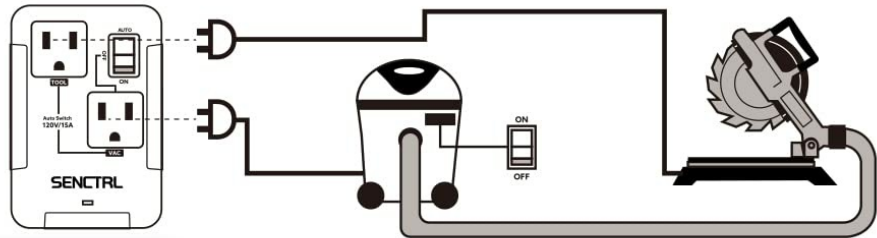


Figure 2: Detailed view of the AVS2000 showing the "TOOL" and "VAC" outlets, along with the mode switch and LED indicator.

## INSTRUCTION



### STEP 1

- ▲ Plug the AVS2000 into any standard 15A/120V outlet. Set the Mode Switch to the AUTO position.

### STEP 2

- ▲ Plug vacuum into the VAC OUTLET.
- ▲ Switch ON Vacuum.

### STEP 3

- ▲ Plug tool into TOOL OUTLET.
- ▲ USE your power tool as normal.
  - A. Power the tool ON, and the vacuum will automatically start.
  - B. Power the tool OFF, and the vacuum will continue running for an additional 7 seconds to clear out the hose.



Figure 3: Step-by-step diagram illustrating how to connect the AVS2000 to a power tool and vacuum cleaner for automatic operation.

## 4. OPERATING MODES

The AVS2000 offers three distinct operating modes, selectable via the mode switch:

- **AUTO Mode:** This is the primary mode for automated dust collection.
  - When the power tool connected to the "TOOL" port is turned ON (and its load exceeds 30W), the vacuum connected to the "VAC" port will automatically start after a 1-second delay. This delay prevents circuit overload by allowing the tool to draw its initial current before the vacuum starts.
  - When the power tool is turned OFF, the vacuum will continue to run for an additional 7 seconds. This delayed shut-off ensures that any remaining airborne debris or dust in the hose is cleared, promoting a cleaner workspace and reducing exposure to dust.
- **ON Mode:** In this mode, the vacuum connected to the "VAC" outlet will remain continuously ON, regardless of the power tool's status. This is useful for general shop cleanup or when you need the vacuum to run independently.
- **OFF Mode:** In this mode, the vacuum connected to the "VAC" outlet will remain continuously OFF. This is useful when you do not require dust collection or need to perform maintenance on the vacuum.

# Mode Switch

Switch Action: AUTO- OFF- ON



## AUTO MODE

*Turn the vacuum on/off automatically with the power tool*

- ⚡ Prevent circuit overload with **1s** vacuum delay time
- ⚡ Automatically delay vacuum turn-off by **7s**

## OFF/ON MODE

*Turn the vacuum off/on all time*

- ⚡ You can manually turn the vacuum on/off all time according to your actual condition without plug out or use another power outlet.

Figure 4: Close-up of the AVS2000 mode switch, detailing the AUTO, OFF, and ON positions and their functions.

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Video 2: Demonstration of the AVS2000's automatic and manual operating modes, showing the delayed start and shut-off features.

## 5. COMPATIBILITY

The Sencrl AVS2000 is designed to work with a wide range of power tools and dust collection systems. It is compatible with tools that have a power rating not exceeding 120 VAC, 15 Amp, 60 Hz, and 1875W.

Common compatible tools include:

- Table Saws
- Miter Saws
- Track Saws
- Chop Saws
- Sanders (orbital, belt, etc.)
- Router Tables
- Planers

- Wood Lathes
- Shop Vacuums and Dust Collectors

# COMPATIBILITY

Support a wide range of cutting tools from handheld devices to large shop saws.



Table Saw



Miter Saw



Chop Saw



Router Table



Track Saw



Planers



Wood Lathe



Sander



**15A  
120V**

Figure 5: Visual representation of various power tools compatible with the AVS2000 for automated dust collection.

## 6. SPECIFICATIONS

Feature	Detail
Model Number	AVS2000
Power Rating	120 VAC, 15 Amp, 60 Hz, 1875W (Max)
Tool Outlet Rating	120V, 15A, 60Hz, 1875W
VAC Outlet Rating	120V, 15A, 1875W (Controlled by Mode Switch / Power Tool)
Actuation Threshold	0.25 Amps (approx. 30W at 120V)
On Delay	1 second (for vacuum start)

Feature	Detail
Off Delay	7 seconds (for vacuum shut-off)
Power Cord	19.7 inch UL-certified US standard 14AWG
Material	Durable PC+ABS V0 grade flame retardant material
Dimensions	8.58 x 4.45 x 2.09 inches
Weight	11.68 ounces
Intended Use	Indoor, dry locations only

## 7. TROUBLESHOOTING

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If you encounter issues with your Senctrl Automatic Vacuum Switch, consider the following common troubleshooting steps:

- **Vacuum Not Starting in AUTO Mode:**

- Ensure the vacuum's own power switch is set to the ON position. The AVS2000 controls the power flow, but the vacuum itself must be ready to operate.
- Verify the power tool is drawing sufficient power (above 30W) to trigger the load sensing. Some very low-power tools may not activate the switch.
- Check all power connections: AVS2000 to wall outlet, vacuum to "VAC OUTLET", and tool to "TOOL OUTLET". Ensure plugs are fully inserted.
- Confirm the AVS2000 mode switch is firmly set to "AUTO".

- **Vacuum Not Shutting Off (or delayed shut-off not working):**

- Ensure the power tool is completely turned off and no longer drawing power.
- Verify the AVS2000 mode switch is set to "AUTO". The delayed shut-off only functions in this mode.

- **No Power to AVS2000:**

- Check the wall outlet by plugging in another known working device.
- Inspect the AVS2000's power cord for any damage.
- Ensure the LED indicator on the AVS2000 is lit when plugged in. If not, there may be an issue with the power supply or the unit itself.

- **Circuit Breaker Tripping:**

- Ensure the combined wattage of your power tool and vacuum does not exceed 1875W (15A at 120V).
- Avoid connecting the AVS2000 to an overloaded circuit. Try a different circuit if possible.

If issues persist after following these steps, please contact Senctrl customer service for further assistance.

## 8. MAINTENANCE

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To ensure the longevity and optimal performance of your Senctrl Automatic Vacuum Switch, follow these simple maintenance guidelines:

- **Keep Clean:** Regularly wipe down the exterior of the unit with a dry, soft cloth to remove dust and debris. Do not use liquid cleaners or immerse the unit in water.
- **Inspect Cords and Plugs:** Periodically check the power cord and all plugs for any signs of damage, fraying, cuts, or bent prongs. Replace the unit if any damage is found.
- **Store Properly:** When not in use, store the AVS2000 in a dry, cool environment, away from direct sunlight and extreme temperatures.
- **Avoid Overloading:** Always adhere to the maximum power ratings to prevent internal damage to the unit.

## 9. WARRANTY AND SUPPORT

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The Senctrl Automatic Vacuum Switch (AVS2000) comes with a worry-free **12-month warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

For warranty claims, technical support, or any questions regarding your AVS2000, please contact Senctrl customer service. Our friendly customer service team is ready to assist you.

Please refer to the welcome guide included with your purchase for specific contact details or visit the official Senctrl website for the most up-to-date support information.