

- Manuals.plus /
- > CEMELI /
 - > CEMELI US-52 AC Motor Speed Pinpoint Regulator Controller 200W Instruction Manual

CEMELI US-52

CEMELI US-52 AC Motor Speed Pinpoint Regulator Controller
200W Instruction Manual

Model: US-52 (200W)

1. PRODUCT OVERVIEW

The CEMELI US-52 AC Motor Speed Pinpoint Regulator Controller is designed for precise speed adjustment of industrial AC motors up to 200W. This manual provides essential information for safe and effective use of the device.

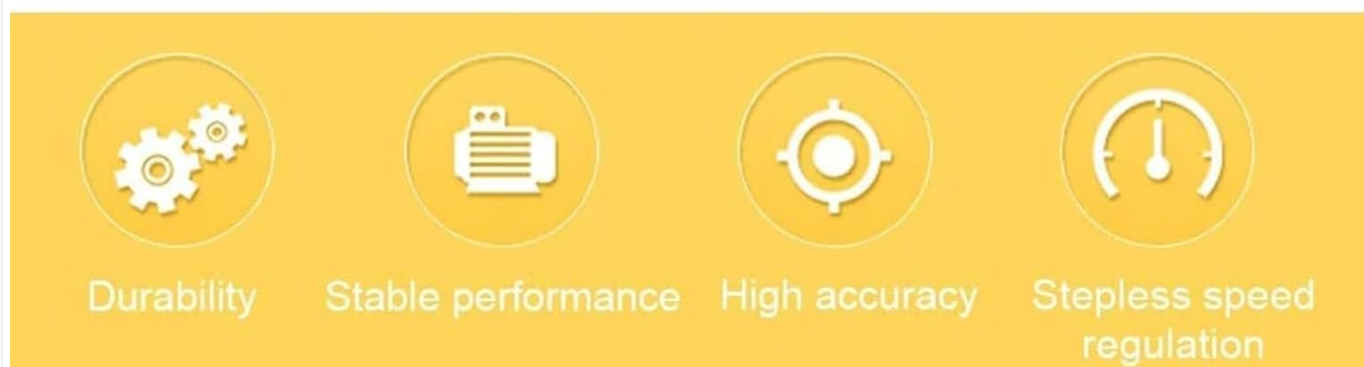
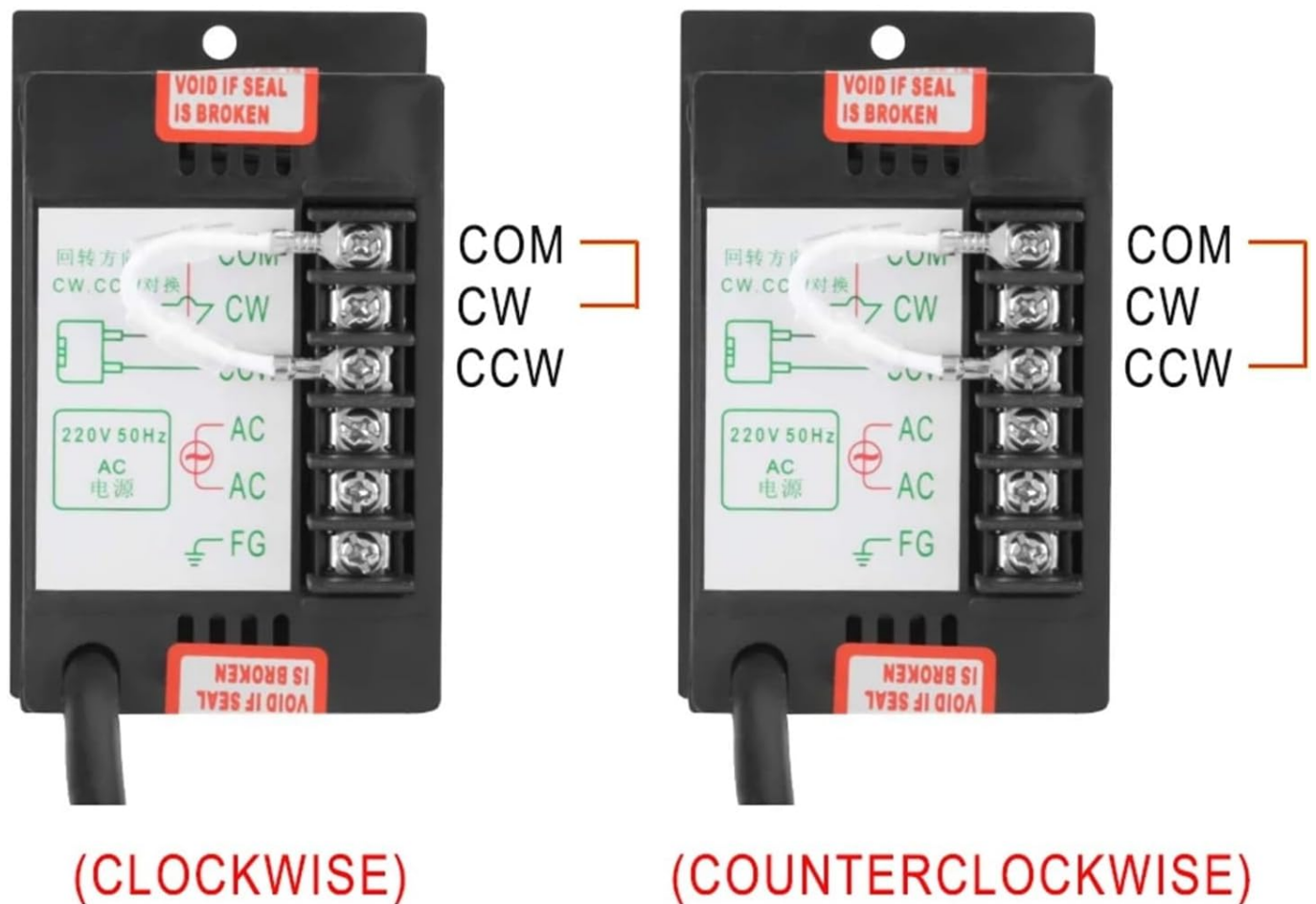


Image 1: Front panel of the US-52 controller, showing the indicator light, potentiometer (speed knob), main switch, and mounting holes.

2. SETUP INSTRUCTIONS

Follow these steps to properly set up your motor speed controller:

1. **Power Disconnection:** Before making any connections, ensure the power supply is completely turned off.
2. **Wiring:** Connect the controller to your AC motor according to the provided wiring diagram. Verify all connections are secure and correct.
3. **Initial Speed Setting:** Set the speed potentiometer (knob) to the lowest position ('0') to prevent sudden high current surges and potential damage upon startup.
4. **Mounting:** Securely fix the controller in a suitable location using the designated mounting holes.



SELECT COM AND CW SHORT CONNECTION, THEN THE MOTOR WILL ROTATE CLOCKWISE. SELECT COM AND CCW SHORT CONNECTION, THEN THE MOTOR DO COUNTERCLOCKWISE ROTATION.

Image 2: Wiring configurations for motor direction control. The left diagram shows a short connection between COM and CW for clockwise rotation. The right diagram shows a short connection between COM and CCW for counter-clockwise rotation.

Wiring Color Code (for troubleshooting, if applicable):

- **Red:** Power supply / Main line
- **Green, White:** Capacitor connections
- **Blue:** Speed measurement feedback (for voltage and current feedback to adjust speed)
- **Yellow:** Ground

3. OPERATING INSTRUCTIONS

Once the controller is set up, follow these steps for operation:

1. **Power On:** Turn on the main power supply to the controller.
2. **Adjust Speed:** Slowly rotate the speed potentiometer knob to the desired motor speed.
3. **Fine-Tuning:** If the motor speed is not consistent with requirements, adjust the fine-tuning potentiometer located on the side of the product.

4. **Changing Motor Direction:**

- To change the motor's running direction, locate the jumper lines for "CCW" (Counter-Clockwise) and "CW" (Clockwise) on the back of the controller.
- For clockwise rotation, ensure a short connection between COM and CW.
- For counter-clockwise rotation, ensure a short connection between COM and CCW.
- **Important:** Always ensure the motor has completely stopped running before changing its direction to prevent damage.

5. **Power Off:** When the controller is not needed, turn off the main power supply.

4. **MAINTENANCE**

To ensure the longevity and optimal performance of your CEMELI US-52 controller, follow these general maintenance guidelines:

- **Cleaning:** Keep the controller clean and free from dust and debris. Use a soft, dry cloth for cleaning. Avoid using liquid cleaners or solvents.
- **Environment:** Operate and store the controller in a dry environment, away from excessive moisture, heat, and direct sunlight.
- **Inspection:** Periodically inspect all wiring connections to ensure they remain secure.
- **Ventilation:** Ensure adequate ventilation around the controller to prevent overheating.

5. **TROUBLESHOOTING**

Refer to the following common issues and their solutions:

Issue 1: Motor speed controller cannot be turned off with the switch.

Answer: The switch on the motor speed controller is primarily a speed control switch, not a main power switch. When connected to a 220V power supply, the display may always show "000" even when the switch is in the 'off' position. To adjust the speed, press the '-' button (if available) or rotate the potentiometer. To completely power off the unit, disconnect it from the main power supply.

Issue 2: Cannot adjust the motor speed when turning the potentiometer.

Answer: This issue can arise from two main reasons:

1. **Wiring Error:** Double-check all wiring connections against the provided diagram and the color code mentioned in the Setup section. Incorrect wiring is a common cause.
2. **Motor Compatibility:** The motor you are using must have a "speed control coil" or a compatible feedback mechanism. The controller relies on feedback from this coil to regulate speed. Without this specific coil or feedback, the controller may not be able to effectively adjust the motor's speed. Ensure your motor is compatible with this type of speed controller.

6. **SPECIFICATIONS**

Brand	CEMELI
Model	US-52
Power Rating	200W (This specific variant)
Material	Copper
Item Weight	50 Grams
Unit Count	1.0 Count

Color	One Color
ASIN	B0D7HMCZ58

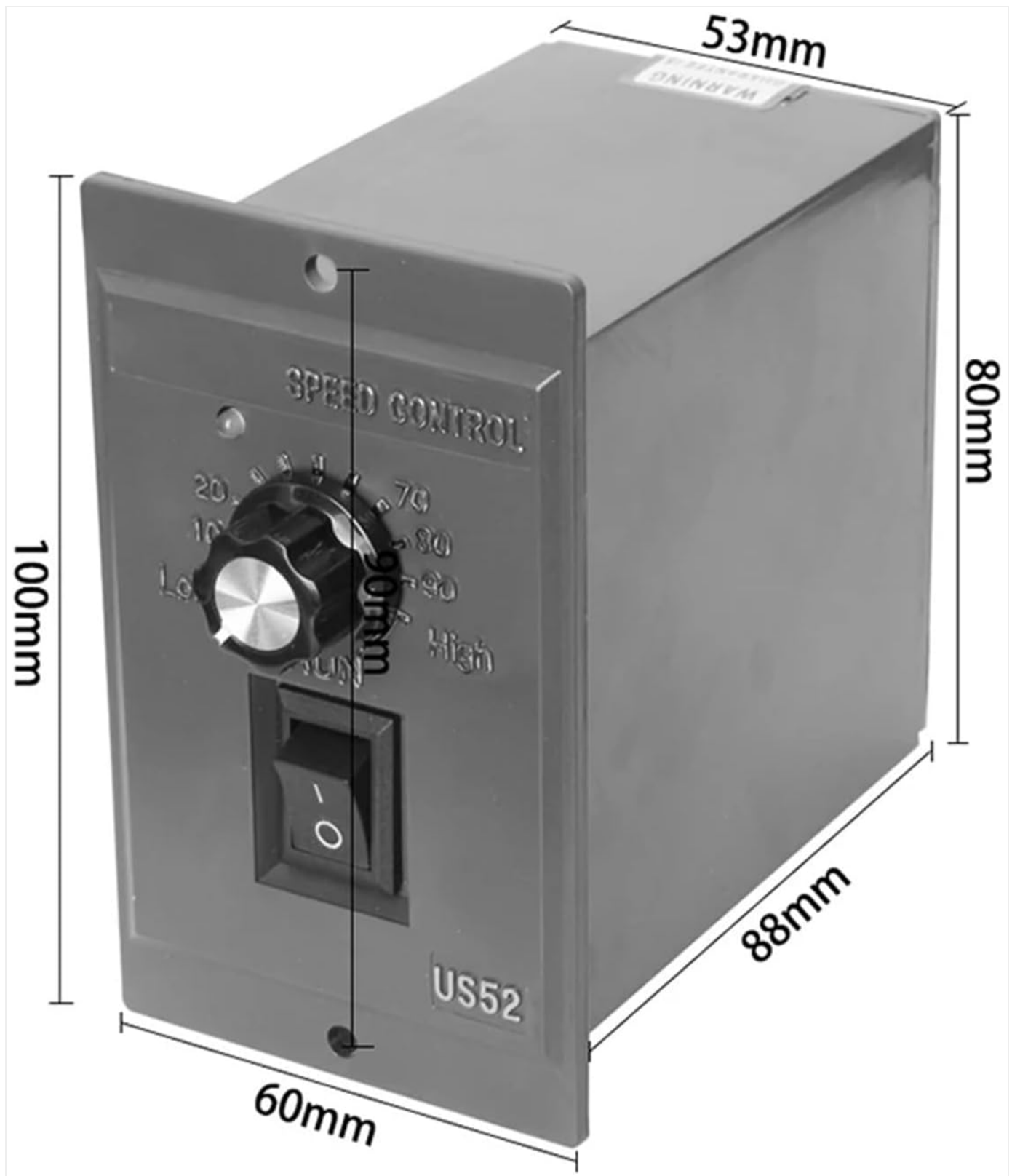


Image 3: Dimensional drawing of the US-52 controller, showing measurements such as 100mm height, 60mm width (front panel), 88mm depth, and 53mm width (body).

7. WARRANTY AND SUPPORT

For warranty information, technical support, or any inquiries regarding your CEMELI US-52 AC Motor Speed Pinpoint Regulator Controller, please contact the manufacturer or your point of purchase. Keep your purchase receipt as proof of purchase.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

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