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Sintron ST-005

Sintron ST-005 Timer Control Power Box User Manual

Model: ST-005 | Brand: Sintron

1. Introduction

The Sintron ST-005 is an advanced timer control power box designed for US/Canada electronic devices, supporting up to 30A. It features an LCD display and integrates mobile payment functionality, alongside traditional coin operation, to manage power supply for various appliances. This device ensures that connected machines receive power only after a successful payment, making it ideal for commercial or shared-use environments.

Key Features:

- **Superior Performance:** Supports up to 30A for various appliances, including washing machines.
- **Mobile Payments:** Compatible with Apple Pay, Google Pay, PayPal, Venmo, Cash App, and credit cards.
- **Customizable LCD Display:** Personalize on-screen text to display store name or contact information.
- **OTA Updates:** Over-The-Air firmware updates ensure the device remains current with evolving technology.
- **Multi-Application:** Suitable for gaming machines, massage chairs, washing machines, shoe polishers, chargers, and PCs.
- **Qualified Product:** Patented design with safety-compliant cables.

2. Setup

Proper setup is crucial for the safe and effective operation of your Sintron ST-005. Ensure all connections are secure and comply with local electrical codes.

2.1 Power Connection

The ST-005 is designed for 220V-240V power systems and supports a 3-prong NEMA 10-30R plug. Verify your appliance's power requirements match the unit's specifications.



Figure 1: The Sintron ST-005 is compatible with 3-prong 220V-240V plugs.

2.2 Internal Components

The ST-005 utilizes a solid-state relay for reliable power control. For safety and proper function, do not attempt to modify internal wiring unless performed by a qualified technician.



Figure 2: Internal view of the ST-005, highlighting the solid-state relay.

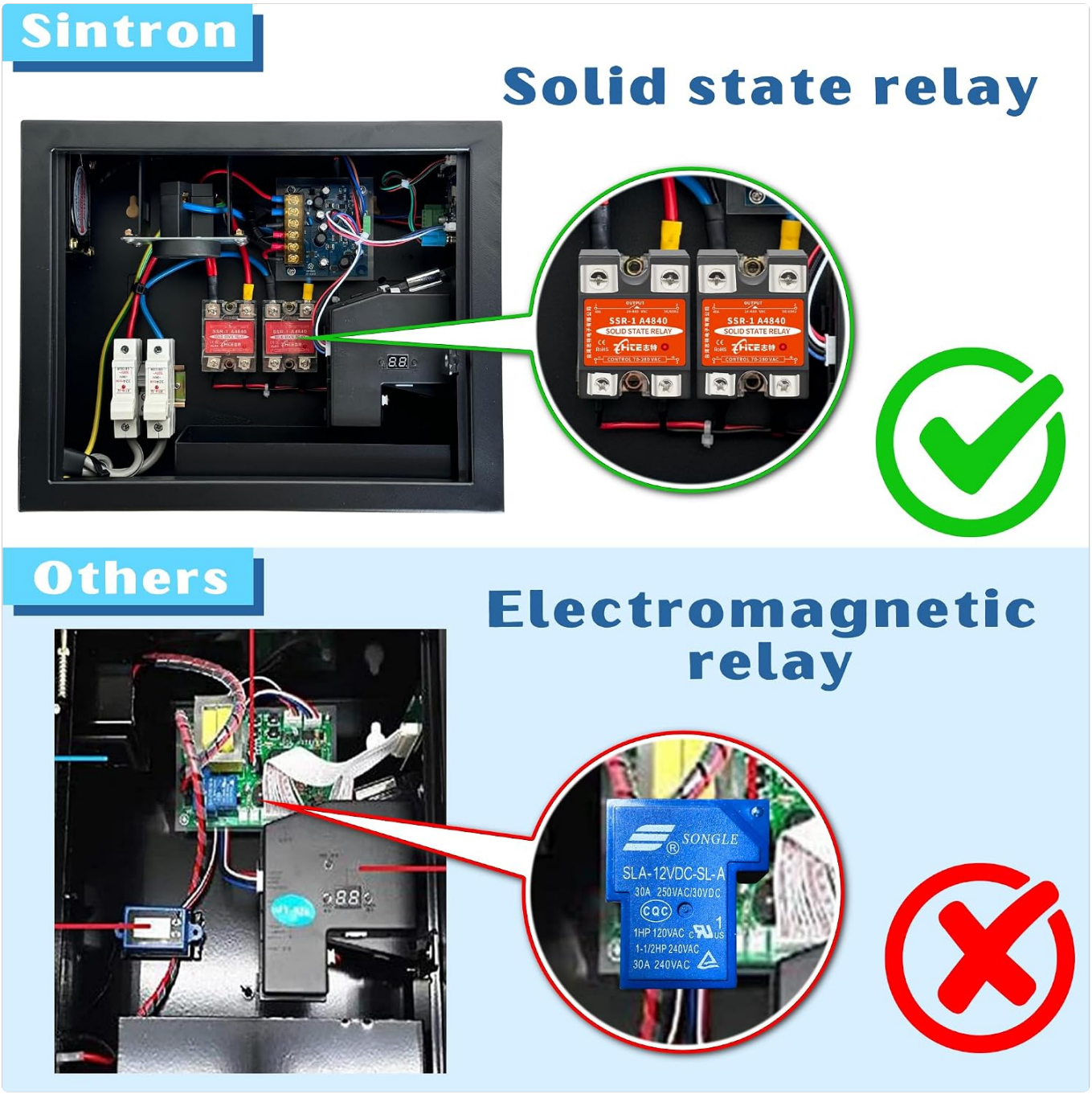


Figure 3: The ST-005 uses a solid-state relay for enhanced durability and performance compared to traditional electromagnetic relays.

3. Operating Instructions

The Sintron ST-005 offers both mobile and coin payment options for activating connected appliances.

3.1 Mobile Payment Operation

1. Ensure the ST-005 is connected to power and your appliance.
2. Press the button on the ST-005's front panel to generate a QR code on the LCD screen.
3. Use your smartphone's camera or a payment app to scan the QR code.
4. Select your preferred mobile payment method (e.g., Apple Pay, Google Pay, PayPal, Venmo, Cash App, credit card) and complete the transaction. A payment example can be found here.
5. Upon successful payment, the ST-005 screen will display "Payment Successful" followed by a countdown timer

indicating the available usage time.

6. You can now operate your connected appliance for the purchased duration.



Figure 4: Mobile payment process using a QR code.

3.2 Coin Payment Operation

1. Insert the required coins into the coin slot on the ST-005. The device supports up to six different coin types.
2. The LCD screen will display the accumulated credit or remaining time.
3. Once sufficient payment is made, the countdown timer will begin, and the appliance will be powered on.

3.3 Customizable LCD Display

The ST-005 allows you to personalize the text displayed on its LCD screen. This feature can be used to show your store name, contact number, or specific instructions to users.



Figure 5: Example of customizable text on the ST-005 LCD.

3.4 Payment Gateway Information

The ST-005 integrates with various payment gateways. Below is a general overview of common payment methods and associated fees. Specific details may vary by provider and region.



Figure 6: The ST-005 supports a wide range of global payment methods.

Payment Methods Supported	Transaction Fees	Micropayment Rate	International Transactions	Chargeback Fee	Monthly Fee
Credit/debit cards PayPal account Venmo Apple Pay Google Pay	Varies by country and transaction type	5% + $0.05 per transaction (for payments < $10 USD)	Supported, with currency conversion fees	$20 per chargeback	None (for standard payments)

Figure 7: Example fee structure for Stripe payment gateway.

Payment Methods Supported	Transaction Fees	Micropayment Rate	International Transactions	Chargeback Fee	Monthly Fee
Credit/debit cards Apple Pay Google Pay various payment methods (Please refer to the User Manual)	2.6% + $0.30 per transaction	Not applicable	Supported, multi-currency support	$15 per chargeback	None (for standard payments)

Figure 8: Example fee structure for PayPal payment gateway.

Payment Methods Supported	Transaction Fees	Micropayment Rate	International Transactions	Chargeback Fee	Monthly Fee
Credit/debit cards Apple Pay Google Pay gift cards (Please refer to the User Manual)	2.6% + $0.30 per transaction	Not applicable	Limited international support, USD only	$0 (Square covers the cost)	None (for standard payments)

Figure 9: Example fee structure for Square payment gateway.

4. Applications

The versatility of the Sintron ST-005 allows its use in a wide range of public and commercial settings:

- **Laundry Facilities:** Washing machines and dryers.
- **Recreational Areas:** Gaming machines, arcade games, kiddie rides.
- **Wellness Services:** Massage chairs.
- **Personal Care:** Hair dryers in changing rooms, shoe polishers.
- **Charging Stations:** For phones, electric vehicles, or other devices.
- **RV Parks:** Power pedestals.
- **Fitness Centers:** Treadmills and other exercise equipment.



Figure 10: Common applications for the ST-005 timer control power box.

Demonstration Videos (ST-004 functionality shown, similar to ST-005):

Video 1: Demonstration of a Sintron timer box (ST-004 model) converting a household washing machine into a commercial unit.

Video 2: Mobile payment feature demonstration using a Sintron timer box (ST-004 model) with a hairdryer.

5. Specifications

Feature	Detail
Model Number	ST-005
Operating Voltage	220V-240V
Max Current Rating	30 Amp

Payment Methods	Coin, Apple Pay, Google Pay, PayPal, Venmo, Cash App, Credit Cards
Display	Customizable LCD
Firmware Updates	Over-The-Air (OTA)
Relay Type	Solid State Relay
Package Dimensions	16.54 x 12.8 x 6.85 inches
Item Weight	16.28 pounds



Figure 11: Physical dimensions of the Sintron ST-005.

6. Maintenance

To ensure the longevity and optimal performance of your Sintron ST-005, follow these general maintenance guidelines:

- **Regular Cleaning:** Keep the exterior and LCD screen clean using a soft, dry cloth. Avoid abrasive cleaners or solvents.
- **Ventilation:** Ensure the unit has adequate ventilation to prevent overheating. Do not block any vents.
- **Cable Inspection:** Periodically inspect all power cables and connections for any signs of wear, damage, or loose fittings. Replace damaged cables immediately.
- **Firmware Updates:** Regularly check for and apply Over-The-Air (OTA) firmware updates to benefit from the latest features and security enhancements.
- **Coin Mechanism:** If using coin operation, periodically check the coin slot for obstructions and clean as necessary to ensure smooth operation.

7. Troubleshooting

If you encounter issues with your Sintron ST-005, refer to the following common troubleshooting steps:

- **No Power to Appliance:**
  - Verify the ST-005 is properly plugged into a live power outlet.
  - Check if the appliance is correctly connected to the ST-005.
  - Ensure a successful payment has been made and the timer is counting down.
  - Check the circuit breaker for the power outlet.
- **QR Code Not Generating/Scanning:**
  - Ensure the ST-005 screen is clean and free from glare.
  - Check your phone's camera and internet connection.
  - Try restarting the ST-005 by unplugging and re-plugging it.
- **Coin Mechanism Issues:**
  - Check for any foreign objects or jammed coins in the slot.
  - Ensure you are using the correct coin types as configured for the device.
- **Device Unresponsive:**
  - Perform a hard reset by disconnecting power for 30 seconds and reconnecting.
  - If the issue persists, contact customer support.

8. Warranty and Support

Sintron is committed to your satisfaction. The ST-005 is a qualified product with a patent application in progress, and all cables meet safety regulations.

- **Service Guarantee:** If you encounter any issues, please contact Sintron customer support for assistance. We are dedicated to providing the best service and resolving problems promptly.
- **OTA Updates:** The ST-005 supports Over-The-Air (OTA) firmware updates. For additional functionalities or personalized enhancements, please reach out to us for customization options. Note that extra fees may apply for personalized enhancements.

For further support, please refer to the contact information provided on your device's customizable LCD display or visit the official Sintron website.

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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

Answered questions about this manual

Does the Sintron ST-005 220V 4-prong model use the ST-004P board, and are its internal components the same as the 3-prong British style version?

Based on the available documentation for the Sintron ST-005, here is the information regarding its internal components: Internal Board: The manual mentions that the ST-005 shares similar functionality with the ST-004 model (often using...

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