

STC-1000 Digital Temperature Controller 110–220VAC with Transformer – Precision Thermostat Control for Cooling & Heating Systems

The STC-1000 Digital Temperature Controller is a versatile, reliable, and easy-to-use thermostat module designed for controlling both heating and cooling systems with high accuracy. Featuring a wide voltage input (110–220VAC) and an included transformer for stable operation, it's ideal for applications like aquariums, incubators, fermenters, refrigerators, and environmental control projects.

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STC-1000 Digital Temperature Controller - with
Transformer[/caption][caption id="attachment_108551" align="aligncenter" width="300"]

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◆ Key Features and Specifications

- **Wide Voltage Range (110–220VAC):**
Compatible with most power systems, providing stable performance and easy integration in global applications.
- **Dual Relay Output (Heating & Cooling):**
Automatically switches between heating and cooling modes to maintain a stable temperature environment based on user settings.
- **High Accuracy & Fast Response:**
Ensures precise temperature control with a measurement accuracy of $\pm 1^{\circ}\text{C}$, delivering consistent performance for sensitive applications.
- **Temperature Range:**
Supports control from -50°C to $+99^{\circ}\text{C}$, making it suitable for both low- and high-temperature environments.
- **Easy to Use Interface:**
Features a clear LED digital display and intuitive 4-button interface for quick setup and real-time monitoring.
- **Built-in Transformer:**
Provides internal power regulation for stable and reliable operation, reducing external wiring complexity.

- **Replaceable Temperature Sensor (NTC):**
Comes with a high-quality NTC probe sensor for accurate readings and easy replacement if needed.
 - **Compact and Durable Design:**
Sturdy plastic housing designed for panel mounting, ensuring durability and ease of installation in control boxes or devices.
 - **Adjustable Parameters:**
Users can set upper/lower limits, hysteresis, and calibration settings to match specific requirements.
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Applications

The STC-1000 Temperature Controller is widely used in:

- **Aquariums & Fish Tanks** 🐠 – maintain optimal water temperature
 - **Incubators & Hatching Systems** 🥚 – precise egg incubation control
 - **Fermentation & Brewing** 🍺 – control fermentation temperature for quality results
 - **Refrigerators & Freezers** ❄️ – automatic cooling control
 - **HVAC and Environmental Chambers** 🌡️ – accurate temperature regulation in labs and workshops
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Package Includes

- 1 × STC-1000 Digital Temperature Controller
 - 1 × NTC Temperature Sensor Probe
 - 1 × Transformer (for stable operation)
 - 1 × User Manual
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Why Choose the STC-1000 Controller?

The STC-1000 offers the perfect balance between simplicity, performance, and affordability. With its dual heating/cooling outputs, digital precision, and universal voltage support, it's an

ideal choice for both DIY enthusiasts and professionals looking for dependable temperature control in various applications.