

KETOTEK KT3200PRO

KETOTEK KT3200PRO Day/Night Temperature
Controller

Instruction Manual

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1. INTRODUCTION

Thank you for choosing the KETOTEK KT3200PRO Day/Night Temperature Controller. This device is designed to provide precise temperature control for a wide range of applications, including reptile enclosures, incubators, brewing, greenhouses, and more. Its user-friendly interface, multiple operating modes, and reliable performance make it an ideal solution for maintaining optimal temperature conditions.

2. SAFETY INFORMATION

- Read all instructions carefully before use.
- Ensure the power supply matches the device's requirements (100-250Vac, 50/60Hz).
- Do not immerse the device or its probe in water unless specified as waterproof.
- Keep out of reach of children.
- Do not disassemble or modify the device. Refer all servicing to qualified personnel.
- Always unplug the device from the power outlet before cleaning or performing maintenance.

3. PRODUCT OVERVIEW AND FEATURES

The KETOTEK KT3200PRO is a plug-and-play digital thermostat with a large, easy-to-read LCD display and multiple functions for versatile temperature management.

Key Features:

- **360° Viewing Angle LCD:** Large, clear display for easy reading from various angles.
- **Plug-and-Play Design:** Simple to set up and use.

- **Temperature Unit Switching:** Easily switch between Celsius (°C) and Fahrenheit (°F).
- **Three Operating Modes:**
 - M1: Standard Temperature Control Mode (Heating/Cooling)
 - M2: Timer with Temperature Control Mode (Day/Night cycle)
 - M3: Timer Only Mode
- **Dual Time Cycle Setting:** Allows setting two different temperatures within a 24-hour period to simulate day and night conditions, ideal for biological needs.
- **Memory Function:** Clock settings for M2 and M3 modes are saved for up to 2 weeks after a power outage. All other set parameters are permanently saved.
- **Temperature Sensor:** Includes a 3-meter NTC 10K temperature sensor probe.
- **Temperature Calibration:** Allows for fine-tuning of temperature readings.
- **Reset Function:** Easily restore default settings.



Image 3.1: Front view of the KETOTEK KT3200PRO with key components labeled, including the LCD display, control buttons (M, +, OK, -, return/reset), and the power outlet. The labels indicate functions such as 'Switching operating mode', 'Increase value', 'Output operation indicator', 'Return/Reset key', 'Decrease key', and 'Select / °C/°F key'.

フルビュー LCD ディスプレイ



Image 3.2: The KT3200PRO's full-view LCD display, shown from an angle to highlight its 360-degree readability. The screen displays 'Measured Temperature', 'Start Temperature', and 'Stop Temperature' with corresponding values in Celsius.

4. SETUP

1. **Unpack the Device:** Carefully remove the temperature controller and its accessories from the packaging.
2. **Connect the Sensor:** Insert the NTC 10K temperature sensor probe into the designated port on the controller. Ensure it is securely connected.
3. **Position the Sensor:** Place the sensor probe in the environment where temperature needs to be measured and controlled. Ensure it is not directly exposed to heat sources or drafts that could affect its accuracy.
4. **Plug in the Controller:** Insert the KETOTEK KT3200PRO into a standard power outlet (100-250Vac, 50/60Hz).
5. **Connect Heating/Cooling Device:** Plug your heating or cooling appliance (e.g., heater, fan, lamp) into the outlet on the front of the temperature controller. Ensure the appliance's power consumption does not exceed the controller's maximum output (16A/230V).

5. OPERATING INSTRUCTIONS

The KT3200PRO offers three distinct operating modes: M1 (Temperature Control), M2 (Timer with Temperature Control), and M3 (Timer Only). Use the 'M' button to cycle through these modes.

5.1 General Controls

- **M Button:** Press to switch between operating modes (M1, M2, M3).
- **OK Button:** Confirm settings or enter setting mode.
- **'+' Button:** Increase values or switch between °C/°F (in certain contexts).
- **'-' Button:** Decrease values.
- **Return/Reset Button:** Go back to the previous screen or perform a reset.

5.2 Mode M1: Temperature Control

In M1 mode, the controller maintains a set temperature range by activating or deactivating the connected appliance. This mode supports both heating and cooling functions.

1. Press 'M' until 'M1 TC' is displayed.
2. Press 'OK' to enter setting mode.
3. Set the 'Start Temperature' using '+' and '-' buttons, then press 'OK'.
4. Set the 'Stop Temperature' using '+' and '-' buttons, then press 'OK'.
5. The device will automatically operate in heating mode if 'Start Temperature' < 'Stop Temperature', or cooling mode if 'Start Temperature' > 'Stop Temperature'.

M1温度制御機能



① 暖房モード

開始温度 < 停止温度



② 冷却モード

開始温度 > 停止温度

Image 5.1: Two examples of the KT3200PRO's M1 Temperature Control Mode. The top display shows heating mode (Start Temperature 20.0°C, Stop Temperature 25.0°C), and the bottom display shows cooling mode (Start Temperature 25.0°C, Stop Temperature 20.0°C).

5.3 Mode M2: Timer with Temperature Control (Day/Night Cycle)

M2 mode allows you to set two different temperature ranges for two distinct time periods within a 24-hour cycle, ideal for simulating day and night conditions.

1. Press 'M' until 'M2 TC+Timer' is displayed.
2. Press 'OK' to enter setting mode.
3. Set 'Time 1 ON' (start time for the first period) and 'Time 1 OFF' (end time for the first period).
4. Set 'Start Temperature TC1' and 'Stop Temperature TC1' for the first period.
5. Set 'Time 2 ON' (start time for the second period) and 'Time 2 OFF' (end time for the second period).
6. Set 'Start Temperature TC2' and 'Stop Temperature TC2' for the second period.
7. The clock settings in M2 mode have a memory function, retaining settings for up to 2 weeks after a power outage.

5.4 Mode M3: Timer Only

M3 mode functions as a simple timer, allowing you to set specific ON and OFF times for the connected appliance.

1. Press 'M' until 'M3 Timer' is displayed.
2. Press 'OK' to enter setting mode.
3. Set 'Time 1 ON' (when the appliance turns on).
4. Set 'Time 2 OFF' (when the appliance turns off).
5. The clock settings in M3 mode have a memory function, retaining settings for up to 2 weeks after a power outage.



Image 5.2: Displays for M2 (Timer with Temperature Control) and M3 (Timer Only) modes. M2 shows two time periods (TC1 and TC2) with different temperature settings. M3 illustrates setting specific ON and OFF times for the connected device. A note highlights that M2 and M3 clock settings have a 2-week memory function after power loss.

5.5 Temperature Calibration

If you suspect the temperature reading is inaccurate, you can calibrate the sensor:

1. While in normal display mode, press and hold the 'OK' button for a few seconds to enter the advanced settings.

2. Navigate to the calibration setting (refer to the on-screen prompts or a more detailed manual if available).
3. Adjust the calibration value using '+' and '-' buttons to match a known accurate thermometer.
4. Press 'OK' to save and exit.

5.6 Reset Function

To reset the device to its factory default settings:

- Press and hold the 'Return/Reset' button for several seconds until the display indicates a reset.
- Confirm the reset if prompted.

6. MAINTENANCE

- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents. Ensure the device is unplugged before cleaning.
- **Sensor Care:** Keep the temperature sensor probe clean and free from debris. Avoid bending or damaging the probe cable.
- **Storage:** When not in use for extended periods, store the controller in a cool, dry place away from direct sunlight and extreme temperatures.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	No power supply; loose connection.	Check power outlet; ensure device is securely plugged in.
Temperature reading is inaccurate.	Sensor dirty or damaged; needs calibration.	Clean sensor; perform temperature calibration (see Section 5.5).
Appliance not turning on/off as expected.	Incorrect mode selected; incorrect temperature/timer settings.	Verify operating mode (M1, M2, M3) and review all set parameters.
Display shows an error code.	Sensor fault; internal error.	Check sensor connection; try resetting the device. If problem persists, contact support.

8. SPECIFICATIONS

Feature	Detail
Model Number	KT3200PRO
Brand	KETOTEK
Power Supply	100-250Vac, 50/60Hz
Output	Max 16A/230V
Temperature Control Range	-40°C to 120°C (-40°F to 248°F)

Feature	Detail
Sensor Type	NTC 10K (3-meter probe included)
Display	360° Viewing Angle LCD
Control Type	Push Button
Product Dimensions (L x W x H)	3.2 cm x 5.8 cm x 11.8 cm
Package Weight	0.2 Kilograms
Color	White



Image 8.1: A diagram illustrating the physical dimensions of the KETOTEK KT3200PRO temperature controller and its sensor probe. The main unit measures 5.8 cm in width, 11.8 cm in height, and 3.2 cm in depth. The sensor cable length is 290 cm, with the probe itself measuring 2.4 cm in length and 0.5 cm in diameter.

9. DIVERSE APPLICATIONS

The KETOTEK KT3200PRO is a versatile temperature control solution suitable for a wide array of environments and uses, including but not limited to:

- Reptile and Amphibian Enclosures

- Incubators
- Homemade Beer Brewing and Fermentation Tanks
- Greenhouses and Plant Heating Mats
- Aquariums and Snake Breeding Tanks
- Infrared Heaters
- Germination Promotion
- Freezers and Refrigerators



Image 9.1: A collage showing various application scenes for the KETOTEK KT3200PRO. These include a reptile (lizard), brewing barrels, a greenhouse, an aquarium, and a family watching TV (representing general home use). The temperature controller itself is also shown in the bottom right corner.

10. WARRANTY AND SUPPORT

KETOTEK products are designed for reliability and performance. For warranty information, technical support, or service inquiries, please refer to the contact information provided with your purchase or visit the official KETOTEK website. Please have your model number (KT3200PRO) and purchase date ready when contacting support.

