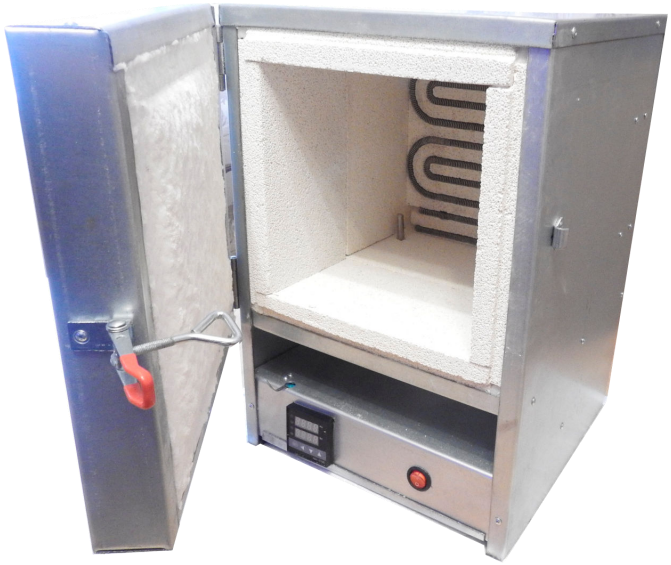


PLEASE READ FIRST

SAFETY INSTRUCTIONS

Please follow all Health and Safety rules and regulations when working with hot objects.

- Make sure that the kiln door is closed properly. Please keep in mind that the kiln has a security switch under the door that disconnects the kiln from its power supply when the door is open.
- Do not attempt to cool the kiln down quickly by leaving its door open – this can lead to small cracks forming inside the chamber.
- This kiln should be placed on a heat resistant surface, e.g. masonry or concrete. Placing it on the floor may also be safe, but other protective materials like metal or ceramic top might still be needed.
- Always use heat resistant gloves and tweezers to remove firing objects from the kiln.
- The kiln should be kept away from all inflammable materials such as curtains, shredded paper, *etc*.
- Never leave the kiln unattended when it is in use due to the high temperatures it can reach.
- **KEEP OUT OF REACH OF CHILDREN.**
- Do not heat the kiln continuously for longer than the maximum time provided in the technical description of your kiln model. 90% of standard heating/firing processes take less than 2 hours.
- Disconnect the kiln from power supply when it is not in use.

PRODUCT DESCRIPTION:

A Tabletop Kiln with a small size chamber, single element and a digital PID temperature controller or 32 step programmable temperature controller is especially designed to heat up all types of metals, clays, glass and enamels. The maximum working temperature inside the chamber is 950°C. The digital electronic controller of the kiln allows precision regulation of temperatures between 0°C and 950°C +/-1°C. The maximum temperature can be reached in approximately 100 minutes. This plug-in 13amp table-top kiln is perfect for jewelry-making. You can work with many of the popular materials such as GlasClay, PMC silver clay, Accent Gold, Art Clay metal clays, BullsEye glasses, Dichroic glasses, Enamels, Image Transfer Solution, Metal Clay Veneer, Prometheus bronze clay, ProCopper clay, SilverEtch etc. It has a safety switch.

- Max. Power - 2200 Watt.
- Power cable – 1,0 Meter.
- Equipped with a secure switch to cut the power supply off when door is open.
- Easy to maintain. Made from high quality materials to include galvanized Steel, ceramic bricks and wool insulations.
- Internal chamber dimensions (mm) – (W)200 x (H)200 x (D)220.
- Kiln dimensions (mm) - (W)280 x (H)410 x (D)330.
- Maximum heating temperature - 950°C.
- Estimated heating time (950°C) - 100 minutes.
- Easy-to-use latch toggle clamp handle.
- Solid state relay to reach a precision temperature - +/- 1°C.
- Weight - approx. 18 kg.

FIRST TIME USE:

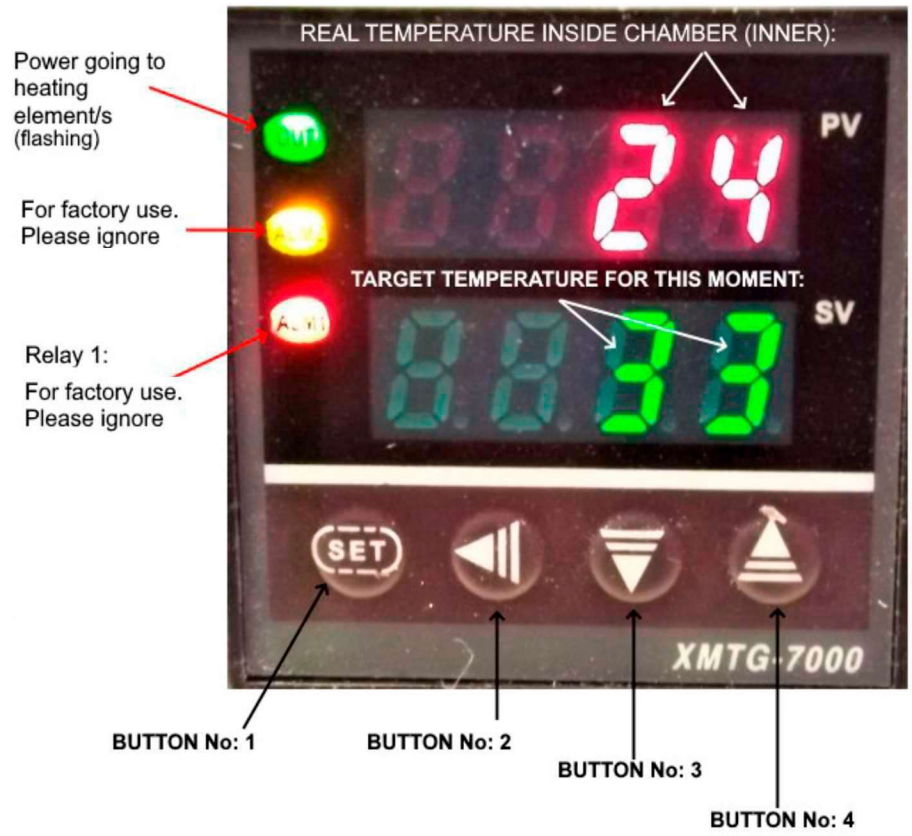
- Remove the kiln from its original packaging and connect it to the power supply.
- Before using the kiln for the first time please heat it up to 150°C and hold this temperature for approximately 10 - 15 minutes to allow water, oils *etc*. to evaporate from the chamber (NOTE: you might notice a little smoke or light smell during the first heating). Then, once you let the kiln to cool down, you can start working on your first project. If the kiln is used less than once per month, please repeat this process every time before the kiln is used.
- When opening/closing the door, please remember to wear heat resistant gloves. You should also hear a faint click of the security switch.
- When you switch the kiln on, the digital controller will start showing the current temperature inside the chamber.
- In order to work with other temperatures, the digital electronic controller needs to be set up according to the temperature you require.

XMTG-7000 PROGRAMMABLE TEMPERATURE CONTROLLER

USEFUL TIPS FOR BEGINNERS

This programmable temperature controller is usually pre-set by the manufacturer for chamber drying purposes (unless the customer asked for a different program). If you want to re-program it, please refer to the instructions below:

FIGURE 1. MAIN XMTG-7000 PROGRAMMABLE CONTROLLER INFORMATION.



1. "SET" - setting /confirmation button. To be used for setting all the controller parameters.

2. "Left Arrow" or **"A/M"**- segment selector (to choose any of the four segments).

3. "Arrow Down" - value decrement (to lower the temperature).

4. "Arrow Up" - value increment (to increase the temperature).

PLEASE NOTE: The controller only 'remembers' one (last) program at any given time.

IMPORTANT!

If your kiln does not start the program when you try starting it, it may mean your **Temperature Starting Point** for the first C-01 segment (on the SV line) is **higher than** the real temperature (on PV line). **The Starting Point (C-01) should always be lower than temperature inside the chamber/inner.** This is why the manufacturer pre-set the starting point at C-01 = 0005 (S°C), as many people use their kilns outdoors or in cold workshops.

Example program and step-by step set up.

Ramp up from your room temperature to 450°C in 120 minutes (mins), hold this temperature for 4 mins, ramp up again to 945°C in 40 mins, hold for 20 mins, ramp down to 722°C in 60 mins. Hold this temperature for 25 mins and switch your program OFF to let the kiln cool down as quick as possible automatically:

1. Press and hold **Button 4** for 3 seconds until you see **green "STOP"** sign on the bottom line. This will allow you to disconnect the power supply from the kiln's heating element/s to avoid heating the objects you place inside the kiln during the re-programming process.

2. Press the "SET" button to see on TOP controller line "C-01" (First segment of the 32 segments in total. C = Celsius) and enter on the BOTTOM line starting temperature/point (usually= 5°C) - 0005. Now press "SET" to save this parameter and move to the «r-01» ("r" = "T" = TIME segment - in minutes) to pre-set required TIME for reaching NEXT required temperature (450°C). To do this, input on the BOTTOM line (using buttons 2,3 and 4) "0120" (120 minutes) and press SET again to remember new settings and go to next step "C-02".
Now enter the required temperature "0450" on the bottom line and press "SET" again to go to "r-02" for pre-setting holding time= 0004 (4 minutes).
Press "SET" again to confirm holding temperature "0450" on segment "C-03".
Press "SET" again for pre-setting time (r-03 = 0040) for ramping up to 945°C and press SET again for pre-setting this required temperature (C-04 = 0945).
Press "SET" again hold this temperature for 20 mins (r-04 = 0020) and press "SET" again for confirming the soaking temperature (C-05 = 0945).
Press "SET" again for ramping down to 722°C in 60 minutes (r-05 = 0060) and press "SET" again to enter target temperature (C-06 = 0722).
Now enter holding time for this parameter (r-06 = 0025) and press "SET" again to confirm holding temperature (C-07 = 0722).
To stop your program and cool the kiln down automatically enter "0000" in "r-07" segment. Your program will finish automatically as soon as the last parameter is reached. That's it! Now you can use this controller for hundreds of different programs.

3. When re-programming is finished just click twice on the "SET" button again, leave the controller on for 20-30 seconds - it will remember all the parameters and go back to the main screen with "STOP" sign automatically.

4. To start a new program: press and hold **Button 3** for 3 seconds until you see the "Run" sign, or the starting point (0005) on the bottom line of controller. Otherwise, just can just re-start your kiln. Each time you turn your kiln ON the last program will start automatically.

5. Important for beginners: you will only have around 20-30 seconds to change the digits on **each segment.** Exceeding this time without changing any digit will lead to the controller returning to the main screen. If this happens, just re-start the re-programming process again by pressing and holding "SET" button again for 3 seconds. You can do it as many times as you need.

6. Quick tip: to quickly change the temperature or time please use **Button No:2** to change the digits on required segments from right to left (the required segment will starts flashing).