

TC1000-G/TC1000-G-Pro Thermal Cycler Gradient

TC1000-S Thermal Cycler Standard

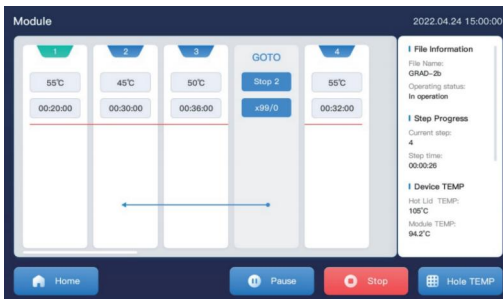
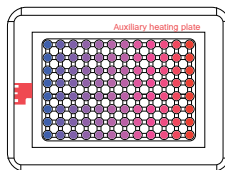
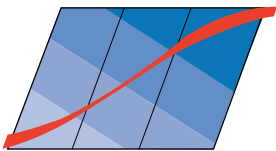
Elegant in design, precise and accurate, with high repeatability, specifically designed for PCR optimization, the TC1000-G/S/Pro Thermal Cycler supports Touchdown PCR and Long PCR experiments. It features advanced gradient temperature control technology and high-performance, durable Peltier heating and cooling, allowing for precise temperature control in different zones. Its edge temperature compensation technology ensures outstanding temperature uniformity. Through gradient settings, experimental conditions can be easily optimized. The TC1000-G/S/Pro gene amplifier is a fundamental instrument in molecular laboratories, widely used in gene detection, molecular cloning, gene expression, mutagenesis, and other tasks, involving fields such as drug discovery, agriculture, and the food industry.



Excellent temperature uniformity



Temperature gradient

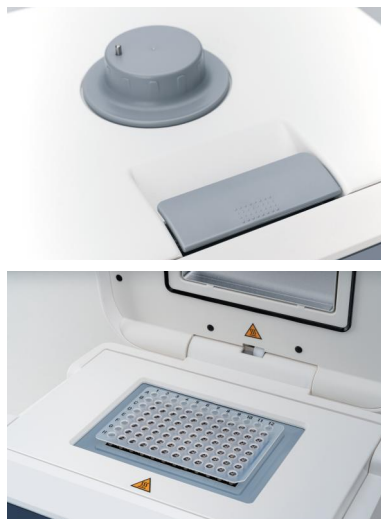


Features

- Featuring a brand-new UI user interface, the graphical menu is simple and easy to use, with a color touch panel that makes it easier for users to edit programs.
- It includes an automatic power-off protection feature that automatically completes unfinished cycles upon power restoration, ensuring the amplification process runs safely.
- The system supports Touchdown PCR (-9.9°C to +9.9°C) and Long PCR (-9min 59s to +9min 59s) experiments.
- The hot lid temperature and working mode can be set to meet various experimental needs, with the hot lid function automatically turning off when the heating module's temperature is below 30°C.
- A one-touch quick incubation feature is available to meet the needs of denaturation, enzyme digestion/ligation, ELISA, and other experiments.

Additional Features of the TC1000-G-Pro:

- Compatible with common PCR tubes, 8-strip tubes, and 96-well PCR plates with no skirt, half-skirt, and full-skirt.
- Real-time display of program progress and remaining time, with the option to set user security accounts and passwords according to different customer needs.
- Built-in WIFI module allows for connection to a computer via a local area network (LAN), enabling simultaneous control of multiple PCR instruments.
- USB interface supports saving and retrieving PCR data via USB drive, software updates through USB and LAN, and customization of programs to meet the storage needs for multiple files.



LCD touch panel



Excellent temperature accuracy

Technical Parameters	TC1000-S	TC1000-G	TC1000-G-Pro
Sample Capacity		96×0.2mL PCR tube 12×0.2mL PCR-8 strips 0.2mL 96 PCR Microplate	
Heating Temperature Range /°C	4-105	4-105	0-105
Lid Temperature Range /°C	30-110	30-110	30-115
Temperature Display Accuracy /°C	±0.1	±0.1	±0.1
Temperature Display Accuracy@55°C	±0.3	±0.3	±0.1
Temperature uniformity@55°C	<0.3	<0.3	±0.2
Max. Heating/Cooling Rate	5°C/Sec	5°C/Sec	5°C/Sec
Gradient Temperature Setting Range /°C	-	30-99	30-105
Gradient Range /°C	-	1-42	1-42, enter 0 to turn off the gradient.
Temperature control method	Block/Tube	Block/Tube	Block/Tube
Adapter block material	Aluminum	Aluminum	Aluminum
Display	7" LCD 800×480	7" LCD 800×480	7" LCD 1024×600
Input	Touch panel	Touch panel	Touch panel
Computer host system	-	-	Yes
Communication interface	-	-	USB、WIFI
User defined file system	Max.30 segments 99 cycles, and storage for over 200 files		20000+ (USB FLASH)
Power off protection	Yes	Yes	Yes
Voltage,Frequency	100~120V /200~240V,50/60HZ		
Dimension[WxDxH]	280×370×250mm		
Weight	11Kg		9.5Kg