

USER MANUAL

TMT-2200S SIMULTANEOUS DUAL PORTS SOLDERING SYSTEM



CAUTION: To provide continued protection against risk of electric shock, connect to properly ground outlets only.

WARNING: This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision. This tool must be placed on its stand when not in use.

- Extension cords or longer detachable power-supply cords are available and may be used if care is exercised in their use.

- The extension cord should be grounding type 3-wire cord and the longer cord should be arranged so that it will not drape over the countertop or tabletop where it can tripped over, snagged, or pulled on unintentionally especially by children.

- Do not immerse in water.

- **WARNING:** To reduce the risk of fire or electric shock, do not expose this product to rain or moisture. Store indoors. Read instruction manual before using.

- Review the manual concerning insertion and removal of the detachable power supply cord, its storage, use and replacement information.

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WARRANTY

All equipment and accessories are warranted by Thermaltronics to be free from defects in materials and workmanship as follows:

Part Number	Description	Warranty Period
TMT-2200PS	100-240V Power supply	1 Year
SHP-KM, SHP-KD	Handpiece	30 Days
SHP-PM	Handpiece	30 Days
SHP-SM	Handpiece	30 Days
SHP-KTZ, DS-HPC-3	Handpiece	30 Days
SHH-3, SHH-5, SHH-KD	Workstand	30 Days
DS-GUN-3	Desolder Gun	30 Days

This warranty does not apply to equipment or goods which have been tampered with, misused, damaged through improper installation or used in a manner contrary to supplier instructions. Normal “wear and tear” of equipment or goods is not covered by this warranty. If the product should become defective within the warranty period, Thermaltronics will repair or replace it free of charge at its sole option. Warranty period is from the date of purchase by the original owner. If the date of purchase cannot be substantiated the date of manufacture will be used as the start of the warranty period.

CAUTION:

To provide continued protection against risk of electric shock, connect to properly grounded outlets only.

WARNING:

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the appliance.

This tool must be placed on its stand when not in use.

TMT-2200S SPECIFICATIONS

Input Line Voltage:	100-240 VAC, 110W Max
Tip to Ground Potential:	<2mV, true RMS 50-500Hz
Tip to Ground Resistance:	<2 Ohms DC
Idle temperature Stability:	+/- 1.1°C (2 °F)
Maximum Enclosure Temperature:	50 °C (122 °F)
Fuse:	250V 2A
Output Frequency:	470KHz
Size (W x H x D):	126mm x 230mm x 148mm
Weight:	2.6 KG
LCD display:	60mm x 16mm
Input Line Frequency:	50-60 Hz
Certification Marks:	cTUVus, CE, GS

Power cord not included, please use 3-Wire Grounded, 6 feet (1.8 Meter), 10A. Please disconnect the power cord from the unit before performing maintenance.

INTRODUCTION

Congratulations on your purchase of the TMT-2200S simultaneously dual port soldering system. This unit has been tested and inspected by Thermaltronics prior to shipment, and with proper maintenance will give you years of reliable performance.

The Thermaltronics TMT-2200S is based on Curie Heat Technology which responds to the thermal demands of each solder joint by adjusting the power instantaneously, thereby meeting the exact requirements of the substrate component and solder material.

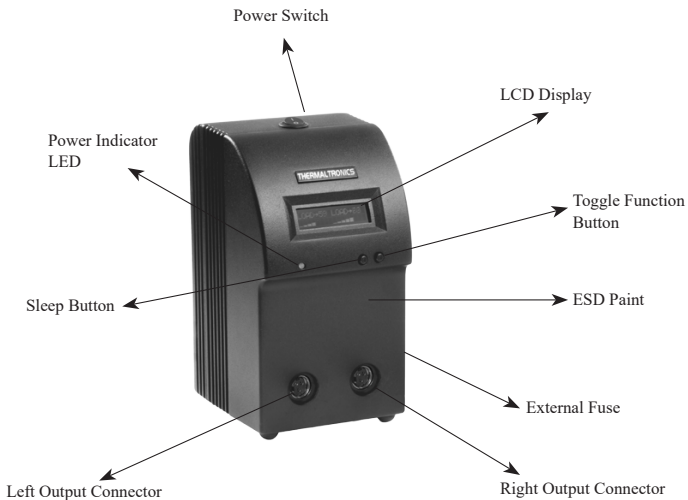
SYSTEM FEATURES

Power Supply:

The TMT-2200PS power supply is manufactured from the finest materials and is the most powerful and compact 470KHz power supply available on the market today.

- Dual ports with simultaneous heat up.
- High thermal recovery & performance.
- 470KHz power supply with built-in LCD display.
- No calibration or operator training required.
- No additional coil assembly costs.

Power Supply Diagram:



SYSTEM FEATURES

Button Functionality:

Toggle Function Button -

Press the button to cycle between modes:

- Left Port Mode - Only the left port will heat up and be in use
- Right Port Mode - Only the right port will heat up and be in use
- Dual Port Mode - Both ports will heat up simultaneously

Sleep Button -

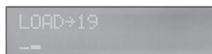
Press the button to put the unit to sleep. In sleep mode, the unit will not heat up either port. To exit sleep mode press the "Toggle Function Button".

LCD Display

Start up - Displays part number and software version



Ready Mode - Low or idle load means the tip is ready for use



Left Port



Right Port



Dual Port

Working Mode - Increasing load means power is being drawn



Left Port



Right Port

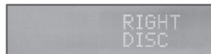


Dual Port

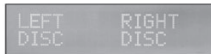
Disconnected - Tip or Hand piece is not connected.



Left Port



Right Port

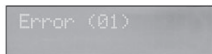


Dual Port

Sleep Mode - Puts the system to sleep.



Error codes are factory set. If a malfunction occurs contact your distributor.



SOLDERING SYSTEM COMPONENTS

TMT-2200S-KD COMPONENTS



TMT-2200PS	Power Supply
SHP-KD*	Soldering Handpiece
SHH-KD	Soldering Handpiece Holder
RMP-1	Tip Removal Pad
BC-1	Brass Curls
SPG-1	Sulphide Free Sponge

***For use with KD Series Tips**

TMT-2200S-KM COMPONENTS



TMT-2200PS	Power Supply
SHP-KM*	Soldering Handpiece (Qty:2)
SHH-5	Soldering Handpiece Holder (Qty:2)
RMP-1	Tip Removal Pad (Qty:2)
BC-1	Brass Curls (Qty:2)
SPG-1	Sulphide Free Sponge (Qty:2)

***For use with K Series Tips**

TMT-2200S-PM COMPONENTS



TMT-2200PS	Power Supply
SHP-PM*	Soldering Handpiece (Qty:2)
SHH-5	Soldering Handpiece Holder (Qty:2)
RMP-1	Tip Removal Pad (Qty:2)
BC-1	Brass Curls (Qty:2)
SPG-1	Sulphide Free Sponge (Qty:2)

***For use with P Series Tips**

SOLDERING SYSTEM COMPONENTS

TMT-2200S-SM COMPONENTS



TMT-2200PS	Power Supply
SHP-SM*	Soldering Handpiece (Qty:2)
SHH-5	Soldering Handpiece Holder (Qty:2)
RMP-1	Tip Removal Pad (Qty:2)
BC-1	Brass Curls (Qty:2)
SPG-1	Sulphide Free Sponge (Qty:2)

***For use with S Series Tips**

TMT-2200S-TZ COMPONENTS



TMT-2200PS	Power Supply
SHP-KTZ*	Soldering Handpiece
SHH-KTZ	Soldering Handpiece Holder
RMP-1	Tip Removal Pad
BC-1	Brass Curls
SPG-1	Sulphide Free Sponge

***For use with KTZ Series Tips**

TMT-2200S-DT COMPONENTS



TMT-2200PS	Power Supply
DS-HPC-3*	Desolder Gun Handpiece Cable
SHH-3	Desolder Gun Workstand
RMP-1	Tip Removal Pad
BC-1	Brass Curls
SPG-1	Sulphide Free Sponge
DS-AH-1	Desolder Gun Airhose
DS-GUN-3	Desolder Gun

***For use with KDT Series Tips**

UNPACKING/ASSEMBLY/OPERATION

Please read this manual and follow the directions before using the equipment.

The carton contains:

1. Instruction manual
2. TMT-2200PS power supply
3. Soldering handpiece holder, including Brass curls and sponge
4. Soldering handpiece
5. RMP-1 Tip removal pad

Note: For specific details, please see section "Soldering System Components" for the packing list corresponding to your model number.

Important: Keep all shipping materials until satisfactory operation has been verified.

Assembly and Operation

1. Remove TMT-2200PS power supply base from its box and place on a suitable work bench equipped with AC power.
2. Remove the work stand from its box. The workstand should include a brass tip cleaning curl and a rectangular sulphide free sponge.
3. Remove the handpiece from its box and place into iron holder.
4. Plug the handpiece cord into the front connector.
5. Plug tip cartridge into handpiece
6. Moisten the sponge with DE-Ionized water.
7. Connect the AC plug to a suitable AC power outlet.
8. Switch the power switch to the "on" position
9. Allow a few seconds for tip cartridge to reach soldering temperature.
10. The unit should then be ready to use.

Temperature Calibration

Thermaltronics "Curie Heat Technology" systems do not require temperature calibration. The technology is very precise and is self regulating. The alloy used in the construction of the tip cartridge will maintain the set temperature for its entire life.