



TC Series Thermal Profiler

Model:

TC-40K II

TC-60K II

TC-80K II

Standard Composition:

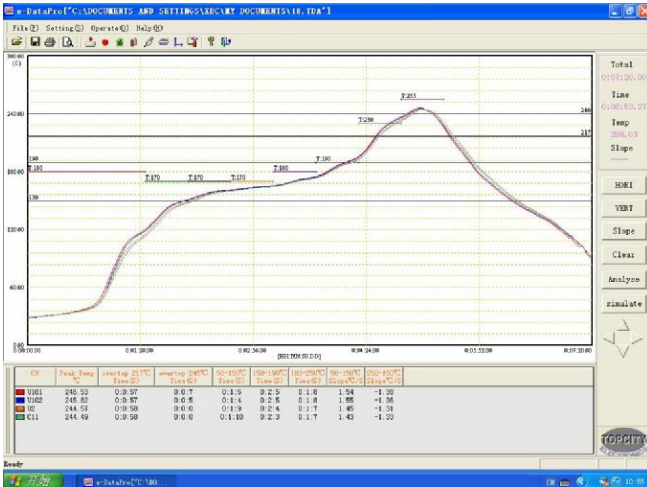
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|----------------------------|--------------------------|
| 1. Thermal profiler | 2. Insulation box |
| 3. Temperature test line | 4. Data download line |
| 5. Charger | 6. "+" screwdriver |
| 7. Software CD | 8. Hi-temp adhesive tape |
| 9. Tweezers | 10. Insulated gloves |
| 11. Hi-temp fine wire | 12. Scissors |
| 13. Instrument box | 14. User Manual |
| 15. Acceptance Certificate | |

Main Technical Specifications:

- 1、 Thermocouple: K-type thermocouple
- 2、 Sampling interval: 0.05sec---600sec Set with software
- 3、 Record data: 120000 point/channel, Can record 20 sets profile
- 4、 Resolution: 0.1℃
- 5、 Temperature measuring range: 0—400℃
- 6、 Temperature measuring accuracy: ±1.0℃
- 7、 Total power: ≤100mW
- 8、 Operating voltage: 3.6VDC, rechargeable battery
- 9、 Dimensions: 208(L) × 75(W) × 15(H)mm
208(L) × 75(W) × 19(H)mm
- 10、 Start Mode : Manual, specified time or specified temperature
- 11、 Record mode: Monitor/Record
- 12、 Connection mode: RS232/USB
- 13、 Software version: e-DataPro 1.5



TC Series Thermal Profiler Software Setup and data analysis



Software main screen

Customer: Topcity Product Name: TC2000

PCB info: [Image of PCB]

Channel	X (CM)	Y (CM)	Co...
<input checked="" type="checkbox"/> U101	4.1	9.3	
<input type="checkbox"/> c08	0.0	0.0	
<input checked="" type="checkbox"/> U102	11.4	5.6	
<input checked="" type="checkbox"/> U2	11.1	16.4	
<input checked="" type="checkbox"/> C11	6.6	14.1	
<input type="checkbox"/> CH 6	13.9	10.6	
<input type="checkbox"/> CH 7	0.0	0.0	
<input type="checkbox"/> CH 8	0.0	0.0	

Test point name: [] modify

Director: [Left Arrow] [Up Arrow] [Right Arrow] [Down Arrow] PCB Size X (CM) 20 Y (CM) 20

Buttons: Picture Remove Ok Exit

Product information setup

Solder Type: 27000 Supplier: Kester

RAMP: Start 50 °C, Slope Rate Min 1, Target 2, Max

SOAK: Temp Rate, Slope Rate MIN 0.5, Target 1, MAX, Time Rate MIN 90, Target 120, MAX

REFLOW: Max Temp MIN 235, Target 240, MAX, Slope Rate MIN 2, Target 3, MAX, Time Rate MIN 30, Target 45, MAX, Liquidous Temp 217 °C

COOLDOWN: slope MIN 2, Target 3, MAX

Solder information setup

Available Machines: Line LIN-1, Manu SUNEAST, Model N3000, Angle 0

Type Reflow, # Zones 8, Heater Setpoints °C

Heat sirocco, Speed Units CM/min, Zone Lengths CM

Process Setpoints: Zone Lengths (CM) 100, 36, 36, 36, 36, 36, 36, 36

SUNEAST-N3000

Machine Zone Information: Zone Setpoints (°C) 180, 170, 170, 170, 180, 190, 230, 255

65 CM/min

Top&Bottom Same Setpoint

Buttons: Refresh Ok Cancel

Machine parameter setup

Channel	RampSlop	Soak Time150-190'	eflow Time217'	Peak Temp	CooldownSlop					
U101	1.53	-47.5K	125.5	18.3%	57.0	80.0%	246.5	65.3%	1.46	-154.4
U102	1.53	-46.5K	125.5	18.3%	57.5	83.3%	245.8	58.2%	1.42	-157.8
U2	1.44	-56.3K	124.0	13.3%	58.0	86.7%	244.6	45.7%	1.34	-166.4
C11	1.42	-58.2K	123.5	11.7%	58.0	86.7%	244.5	44.9%	1.36	-164.4

temperatures data analyse setting

Peak Temp Times of overtop Temp: 217 245

Times of between temperatures: 50 150 150 190 183 250

Slope of between temp: 50 150 250 150 0 0

Slope of between times: 00:00:00 00:00:00 00:00:00 00:00:00 00:00:00 00:00:00

Test Date: 2007-10-16 Time: 11:15

Product: TC2000

Cusmetor: Topcity

Operator: Mark

Company: Topcity

Buttons: Ok Exit

Data analysis:

PWI

Peak Temp, Times of overtop the Temp

Times of between Temp (Reflow)

Slope of between Temp (Reflow)

Slope of between Times (Wave)

Horizontal line and Vertical line setting