



SPS Pro

The smart profiler package that maximizes investment with smart optimization and proactive oven health monitoring capability



SPS Pro™ Advantages

- Advanced Materials and Design
- Smart Oven Setup Software
- Includes KIC HeatMap™ Option
- Compatible with KIC Ecosystem
- 2 Year Warranty
- 24 Hour World Class Customer Support

Pro Capabilities

- Transforms underused profilers into highly productive monitoring tools
- Real-time visualization of each zone's performance vs a reference condition
- Identifies intermittent thermal drifts that may not be visible during isolated profile checks
- Integrated Navigator Power™ optimization. Powerful search engine identifies optimum recipe setup
- PWI – Instant process analysis with a single number
- Unique process specifications for each thermocouple

Additional Standard Features

- Intuitive TAS (Thermal Analysis System) software
- Fast and accurate manual profiling
- Single screen overview
 - Profile graph
 - Metrics (slopes, reflow time, peak)
 - Oven settings
 - Suggested optimal settings
- Solder paste specification library
- SPC charting - Automatic Cpk calculations
- Profile Stacking – multiple runs before download

Optional Smart Features – AI, Data Analytics, Automated Outputs

- ***NEW* Common Recipe Finder™** for efficient production changeover and improved Overall Equipment Effectiveness
- Auto-Focus Power™ - automated NPI oven recipe creation
- Sweet Spot Process Development for better process results
- TC mapping for report/audit documentation
- External data outputs
- Audible light tower for out of spec conditions

Hardware and Built-In Conveniences

- LCP (Liquid Crystal Polymer) enclosure for fast cool-down between profiles
- 7, 9, 12, and 24* channel configurations
- NiMH rechargeable batteries. Wall socket or PC USB port charging capable
- Real-time profiling enabled via Smart Dock pairing using ANT technology
- Variety of available robust and durable thermal shields

** Requires additional hardware/software
Contact KIC for information*



SPS Pro

SPS Smart Profiler with HeatMap™

SPS Pro

SPS Smart Profiler Specifications

Accuracy:±1.1°C
 Resolution:0.1°C
 Internal Operating Temp: ..0°C to 85°C
 Sample Rate:0.002 to 50 readings/second
 Data Points:72K per channel
 Temperature Range:-150°C to 1050°C
 PC Connection:USB 2.0 (Std-A/Micro-B)
 Power:Internal rechargeable NiMH battery pack
 USB cable connected to PC or included power supply
 10 minute recharge for single profile
 Wi-Fi:Dedicated 2.4 GHz network
 ANT:2.4 GHz - for Pairing with Smart Dock
 Thermocouple Compatibility: Type K, Standard
 Vacuum compatibility:1.12kPa (8.40 torr) up to 45 minutes
 Dimensions (L x W x H mm):
 7-Channel Unit:188.0 x 60.0 x 17.0
 9-Channel Unit:188.0 x 75.0 x 17.0
 12-Channel Unit:188.0 x 98.0 x 17.0

SPS Pro Kit Contents	
SPS Smart Profiler	Scissors
Smart Dock (Wi-Fi - ANT)*	Power Supply
HeatMap Probe - 1 TC per Zone* (15 TC Maximum)	Software/Manuals/Hardware Guides on USB Thumb Drive
HeatMap Mounting Hardware	USB Software Protection Dongle
HeatMap Self-Installation** Guide	Getting Started Guide for Profiler and HeatMap
2 USB Cables (A-Male/Micro-B)	Calibration Certificate
Thermal Shield*	Carrying Case
Thermocouples**	
Gloves	

* These items may vary according to specific models/configuration ordered.
 ** KIC Installation and Training available for HeatMap. Contact KIC for details.

HeatMap Probe Specifications

Accuracy:±1.1°C
 Thermocouples:Type K
 Maximum Temperature: ...450°C

SPS WITH THERMAL SHIELD	DIMENSIONS	TEMPERATURE DURATION (MINUTES)					
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Model	Length x Width x Height	150°C	200°C	250°C	300°C	350°C	400°C
7 CH Stainless Steel	318 x 78 x 24	19.5	14.3	12.7	11.0	9.6	
7 CH Single Layer Cool Touch	318 x 80 x 26	23.5	16.8	13.7	11.6	10.6	
7 CH Double Layer Cool Touch	318 x 83 x 30	25.5	20.4	16.6	14.4	12.6	
7 CH HT-400 Stainless Steel *	304 x 78 x 29	25.8	17.5	14	12	10.5	9.3
9 CH Stainless Steel	318 x 103 x 24	23.5	17.5	14.5	12.5	11.5	
9 CH Single Layer Cool Touch	318 x 105 x 26	25.8	18.2	15.4	13.6	11.9	
9 CH Double Layer Cool Touch	318 x 109 x 30	34	24.6	19.4	17	14	
12 CH Stainless Steel	318 x 116 x 24	22.5	17.6	15.1	13.7	11.3	
12 CH Single Layer Cool Touch	318 x 116 x 26	24.2	19.1	16.1	14.6	12	
12 CH Double Layer Cool Touch	318.5 x 121 x 30	34.1	25.3	21.4	16.9	15.3	
24 CH Stainless Steel	305 x 216 x 23	25.5	20	16.7	14	12.5	

*Compatible with Datalogger mode only



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Minimum System Requirements

Dual Core / 1 GHz Processor PC with 2 GB RAM
 2 GB available storage
 Video 1024 x 768 resolution / 16-bit
 1 available USB port (for data download or Smart Dock)
 1 available USB port (for software protection dongle)
 Visit our website at <https://kicthermal.com/support/os-compatibility-chart/> for product compatibility with Windows operating systems.



All KIC products are designed to give maximum value and fast payback by streamlining your thermal process. Investment in a KIC product is a step toward total process control and quality management. All KIC products come with a no questions asked, 30-day money back guarantee.

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