



# 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 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

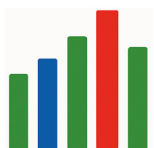
### Optional Smart Features – AI, Data Analytics, Automated Outputs

- **\*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)

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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