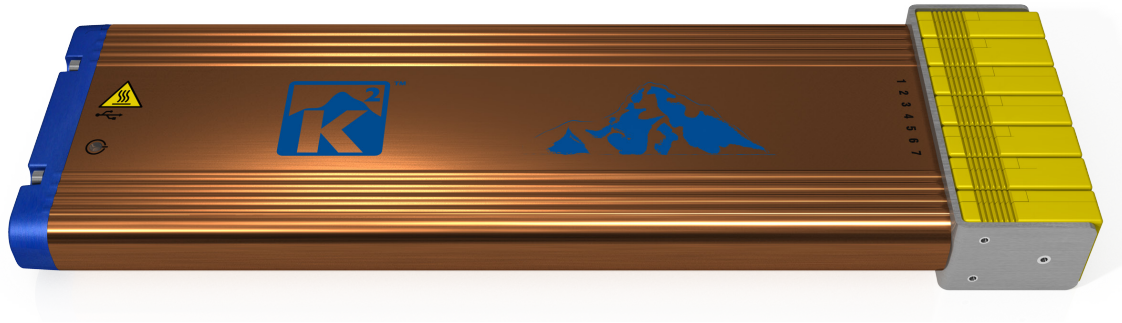


# K<sup>2</sup> Profiler

## Multi-purpose profiling datalogger



## K<sup>2</sup> Advantages

- **Robust Hardware**
- **Ease of Use**
- **Oven Setup Software**
- **24 Hour World Class Customer Support**



## Datalog Profiler

### Standard Features

- Profile collection for a variety of thermal processes
- Single screen overview
  - ✓ Profile graph
  - ✓ Metrics (slopes, reflow time, peak)
  - ✓ Oven recipe settings
- Solder paste specification library
- Assign Separate Specifications per TC
- PWI Index - Instant and Objective Profile Analysis
  - » PWI > 100% = profile out of spec
  - » PWI < 100% = profile in spec
  - » PWI 0% = profile data centered within process window

### Optional Features

- Navigaor Power™ - automated recipe optimization
- Auto-Focus Power™ - intelligent database for NPI oven recipe creation
- Sweet Spot Process Development for better process results
- SPC charting
- TC mapping for report/audit documentation
- Centralized Process Window Control ensures only approved process specification are used
- Automated data output of profiles

### Built-in Conveniences

- 7 and 9 channel configurations
- Powered by 3 AAA batteries (alkaline or rechargeable)
- Temperature triggering for repeatable data collection
- Variety of robust and durable thermal shields available

# K<sup>2</sup> Profiler

## Accuracy

-150°C to 0°C ±(1.1°C + 1.0%)

0°C to 500°C ±1.1°C

500°C to 1050°C ±(1.1°C + 0.2%)

Example: @-10°C, error is 1.1°C + (10 \* 1.0%) = 1.2°C

Acceptable range = -8.8°C to -11.2°C

## Resolution: 0.1°C

Internal Operating Temp: 0°C to 85°C

Sample Rate: 0.002 to 10 readings/sec

Data Points: 224,640

Temperature Range: -150°C to 1050°C

PC Connection: USB 2.0 (Std-A/Mini-B)

Power: (3) AAA batteries

Thermocouple Compatibility: Type K Standard

Dimensions (L x W x H mm):

7 Channel Unit: 206.0 x 60.0 x 17.0

9 Channel Unit: 206.0 x 75.0 x 17.0

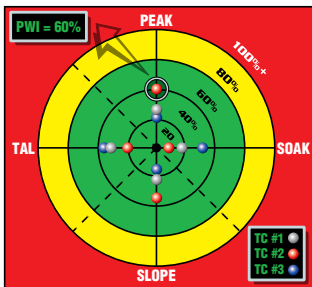
Thermal Shields: See Temperature Tolerance Table below for specifications.

K <sup>2</sup> Profiler Kit Contents	
K <sup>2</sup> Profiler	Software/Manuals/Hardware Guides on USB Thumb Drive
Thermal Shield*	USB Software Protection Dongle
USB Cable (A Male/Mini-B)	Calibration Certificate
AAA Batteries (6)	Getting Started Guide
Thermocouples*	Scissors
Gloves	Carrying Case

\* These items may vary according to specific models/ configuration ordered..

K <sup>2</sup> w/Thermal Shield	DIMENSIONS Length x Width x Height	TEMPERATURE DURATION (mins)					
		150°C	200°C	250°C	300°C	350°C	400°C
7 CH 23mm Stainless Steel	303 x 78 x 24	17.7	12.8	10.4	8.4	7.3	
7 CH 29mm Stainless Steel	303 x 80 x 26	24.4	17.9	13.9	11.6	10	
7 CH Single Layer Cool Touch	303 x 83 x 30	17.5	12	9	7.7	6.5	
7 CH Triple Layer Cool Touch	303 x 78 x 29	26.8	17.6	13.4	11.1	9.7	
7 CH HT-400 Stainless Steel	304 x 103 x 24	24.9	17.6	14	11.5	10.1	9.2
9 CH 23mm Stainless Steel	303 x 105 x 26	18	13.8	11	9.1	8	
9 CH 29mm Stainless Steel	303 x 109 x 30	28.5	21.1	16.3	13.8	12	
9 CH Single Layer Cool Touch	313 x 116 x 24	18.1	13.1	10.1	8.4	6.7	
9 CH Triple Layer Cool Touch	313 x 116 x 26	26.3	17.1	13.4	10.9	9.4	
9 CH HT-400 Stainless Steel	304 x 121 x 30	24.9	17.6	14	11.5	10.1	9.2

## The Process Window Index™



### Profiling Reduced to a Single Number

The PWI measures the profile's fit to the process window in a mathematical and objective manner by using a single number. This aids in optimizing the process by comparing and ranking alternative profiles in terms of their fit to the available process window. The lower the PWI, the more efficient and stable the process! (See the PWI data sheet for a detailed explanation)



Corporate Headquarters  
10865 Rancho Bernardo Rd, Suite 100  
San Diego, CA 92127 USA  
+1(858)673-6050 Phone • +1(858)673-0085 FAX  
sales@kicmail.com • tech@kicmail.com

European Regional Office  
europe.sales@kicmail.com • europe.tech@kicmail.com

Asian Regional Office  
asia.sales@kicmail.com • asia.tech@kicmail.com

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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)  
1 available USB port (for software key)  
Visit our website at <https://kicthermal.com/support-download/os-compatibility-chart> for product compatibility with Windows operating systems.

