

## KICstart<sup>2</sup> Advantages

- Affordable
- Quick,  
Convenient,  
Accurate Profiling
- Easy to Use  
Software
- Reliable, Robust  
Hardware
- 24 Hour Customer  
Support

## Affordable, Easy to Use Profiler



### Exceptional Value

The KICstart<sup>2</sup>™ thermal profiler utilizes core technologies developed by KIC, *the world's premier thermal profiling company*, and is supported by KIC's worldwide organization. Packaging these innovative technologies into a low-cost system, the KICstart<sup>2</sup> is an ideal cost effective thermal profiler.

### Ease of Use

The KICstart<sup>2</sup> profiler has everything you need to quickly acquire an accurate profile, without complicated features that can slow you down. For applications where all you want is your product's thermal profile, immediately with no fuss, the KICstart<sup>2</sup> is for you. The patented design concept automatically identifies the location of each oven heating zone, so no or few measurements are required. This design automatically corrects for different TC locations on the part, aligning them for improved profile graph viewing. Production down time is reduced when using the Manual Prediction software which enables the process engineer an instant "trial and error" capability when searching for more suitable oven recipes. The profiling data is automatically transferred to a PC when plugging in

the USB cable. With its easy to use and intuitive software, new personnel can be trained in record time.

### Instant Process Analysis

Once your profile has completed, the KICstart<sup>2</sup> automatically analyzes your process using the Process Window Index™ (PWI™). The PWI is a single number that measures how well your profile fits within your product's thermal process window (See the Process Window Index data sheet for details). The PWI provides an instant and objective conclusion whether your product profile is in spec, eliminating guesswork and opinion from process analysis. This helps you ensure that all your products on all your lines are manufactured with measurable, consistent quality.

### Reliable and Robust

The superior accuracy and reliability of the KICstart<sup>2</sup> is nothing less than you would expect from KIC's award winning product line. The KICstart<sup>2</sup> is a six thermocouple datalogger unit that utilizes solid state technology designed to withstand the daily or weekly thermal cycles for years to come, for both lead-free and leaded assemblies.

**Thermal  
Profiler**

***KICstart your thermal process today!***

Technical Support  
24 Hours Every Day  
Everywhere

**Risk Free Guarantee**

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.

For more information on any of our products or service please visit us on the Web at: [www.kithermal.com](http://www.kithermal.com) or [www.kic.cn](http://www.kic.cn).

**Service Available**

Technical Support  
Installation and Setup  
Application Support  
Hardware Support  
Guaranteed Warranty

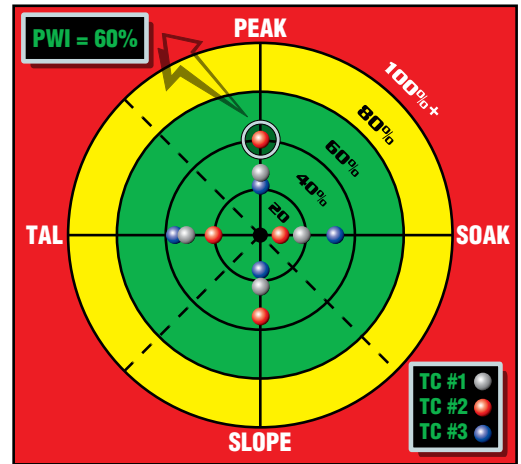
## KICstart<sup>2</sup>

Accuracy: ..... ± 0.5°C  
 Resolution: ..... Variable 0.3 to 0.1°C  
 Internal Operating Temp: ..... 0°C to 105°C  
 Sample Rate: ..... 0.1 to 10 readings/sec  
 Data Points: ..... 45,000  
 PC Connection: ..... USB 2.0 (Std-A/Mini-B)  
 Power Requirements: ..... 9V alkaline battery  
 Thermocouple Compatibility:  
     6 Channel Unit: ..... Type K, Standard  
 Temperature Range: ..... -150°C to 1050°C  
 Dimensions (LxWxH):  
     6 Channel Unit:  
     205mm x 66mm x 20mm  
 Thermal Shield: ..... See *Temperature Tolerance Table* below for specifications.

**Datalogger Model:** data are downloaded to the computer through a USB cable after the run.

*Note: The KICstart<sup>2</sup> software is dongle protected.*  
 Accuracy based on factory calibration.

## 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)

## TEMPERATURE TOLERANCE TABLE

(maximum endurance in minutes at specified temperature)

Shield	DIMENSIONS (mm) (Length x Width x Height)	150°C	200°C	250°C	300°C
Cool Touch Stainless Steel Shield, 6 CH	296 x 80 x 29	21	14	10	8

KICstart <sup>2</sup> Kit Contents	
Profiler	Thermocouples
Thermal Shield	Carrying Case
Software CD	Electronic User Manual
Software Protection Dongle	Electronic Hardware Guide
USB Cable (A Male/Mini-B)	Getting Started Guide
9 Volt Batteries (4)	Calibration Certificate

## COMPUTER CONFIGURATION

**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 <http://kithermal.com/support-download/os-compatibility-chart> for product compatibility with Windows operating systems.



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