The KIC Profile Setter

Conveniently view and share profiles on mobile devices

K² Advantages

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

Mobile Device Compatible

Thermal Profile Setter

Mid-Range Profile Setter

- The K² profile setter replaces the last of KIC's older technology profilers
- Competitively priced for the mid-range market

Compact and Robust Hardware

- The K² will fit through the tight heated chambers often found in lead-free production
- 7 TC unit dimensions:
    - 206 x 60 x 17 (mm)
    - Shield: 302 x 75 x 23 (mm)
- 9 TC unit dimensions:
    - 206 x 75 x 17 (mm)
    - Shield: 312 x 90 x 23 (mm)
- Durable hardware designed to withstand rough production environments

Fail-Safe Operation

- Automatic start when temperatures are below a specified 'start' trigger, protecting the K² and assuring consistent starting points and repeatable profiles
- Hardware designed for accurate measurements
- Engineer sets quality and productivity related parameters:
    - ✓ PWI level
    - ✓ Minimum/maximum allowable conveyor speed
    - ✓ Maximum peak temperature, etc.
- For use by operators, technicians and engineers

Oven Setup Software

- KIC's optimization software does a complete search for all possible combinations of oven zone temperatures and conveyor speeds. It selects the very best oven setup for each new product within seconds
- User selectable setup criteria focuses on positioning the profile towards:
    - ✓ the center of the process window
    - ✓ maximum conveyor speed
    - ✓ minimum oven electricity usage

Instant and Objective Profile Analysis

- KIC's famous Process Window Index (PWI) explains how the profile fits the established process window, with a single number:
    - ✓ PWI above 100 = profile out of spec
    - ✓ PWI at 100 = profile right on the spec limit
    - ✓ PWI below 100 = profile in spec
    - ✓ PWI at 0 = the exact center of the process window
- Immediate profile analysis
- Objective and personnel-independent profile analysis
- Outlying profile data made visible

Accessing the K² Profile Data on the PC or Mobile Device

- The profile data can be displayed in two ways:
    - ✓ On the oven PC or profiling PC
    - ✓ On an Authorized Android mobile device
- Convenient sharing function for selected profile data

K²

Accuracy: .... ± 0.5°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
PC Connection: .... USB 2.0 (Std-A/Mini-B)
Power Requirements: (3) AAA batteries
Thermocouple Compatibility:
    7, 9 Channel Unit: Type K, Standard
Temperature Range:.. -150°C to 1050°C
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.
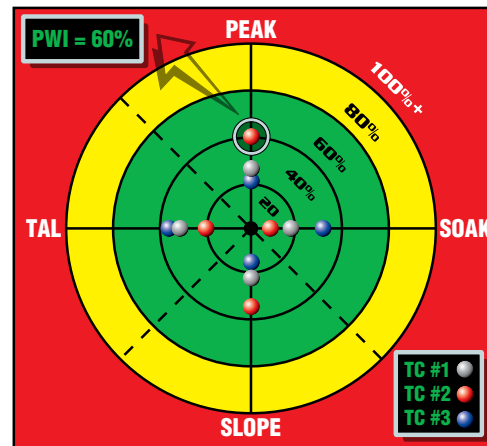
Datalogger Model: data are downloaded to the computer through a USB cable after the run.

KIC's Mobile Profile Viewer is WiFi and Bluetooth compatible

Note: The KIC software may interface directly with some oven controllers, eliminating the need for manual setpoint data entry. Please consult your oven supplier for availability. The KIC 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)

CONFIGURATION	DIMENSIONS (mm) (Length x Width x Height)	150°C	200°C	250°C	300°C	350°C	400°C
Cool Touch Stainless Steel Shield, 7CH	302 x 75 x 23	17.5	12.0	9.0	7.7	6.5	
Cool Touch Stainless Steel Shield, 9 CH	312 x 90 x 23	18.1	13.1	10.1	8.4	6.7	
HT Shield 400	298 x 106 x 29	24.9	17.6	14.0	11.5	10.1	9.2

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://kicthermal.com/support-download/os-compatibility-chart for product compatibility with Windows operating systems.

K² Kit Contents

Profile Setter	Carrying Case
Thermal Shield	Thermocouples*
Software on USB Flash Drive	Electronic User Manual
Software Protection Dongle	Electronic Hardware Guide
USB Cable (A Male/Mini-B)	Gloves
AAA Batteries (6)	Getting Started Guide
Scissors	Calibration Certificate

* These items may vary according to specific models ordered.