

# MVP — Manual Virtual Profiling Fixture

- ◆ Fixture profile = Your PCB profile
- ◆ SPC charts
- ◆ Variable width
- ◆ Plug and play with KIC Profilers
- ◆ 24 Hour customer service



## Spot checking your profile without sacrificing a PCB

Program the KIC MVP™ fixture by running a single profile on your PCB. Subsequent profile runs only require the use of the MVP fixture without the production board. The single programming run eliminates the need to sacrifice your PCB.

## The profile from the fixture matches the profile on the PCB

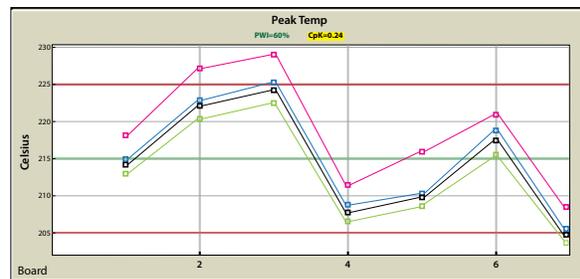
Profiling fixtures designed to periodically check changes in the reflow oven have been used for many years. The difficulty has always been in relating the data from a fixture to what is actually happening on the production boards. KIC's patented sensor technology enables the fixture to provide profile measurements that accurately represent the relevant PCB. Simply attach TCs to the critical components on the PCB and clip it onto the MVP for an initial programming run. Subsequent profile runs with the MVP fixture no longer require the use of the PCB, yet the MVP will accurately measure the profile on the production board. The profile displayed by the fixture is the same profile that the PCB would have experienced in the oven at that time.

## Process adjustments made quickly

Over time, the thermal process will change due to variables such as exhaust changes, preventive maintenance, oven wear and tear and more. The MVP fixture can spot check your process and verify whether it is still in spec and even how far inside the process window it is. When an out of spec situation is detected, the software can help bring the profile back into spec quickly. This capability leads to higher quality, lower rework and less production downtime.

## Track profile changes and trends

The basic SPC charting capability is available to track changes in key process data such as peak temperature. Additionally, the automatically generated charts will display Cpk numbers that reveal the stability of the thermal process. All of KIC's software is designed for easy and fast operation, and instant data access.



Reflow  
Profile  
Fixture



*Innovation That Works™*

## KIC MVP

### MVP

Length: .....22" (559mm)  
 Width: .....2.75" (70mm)  
 Height: .....1" (25.4mm)  
 Weight: .....0.5lbs (0.227Kg)  
 TC temperature rating .....350°C Maximum

### Carrier

Length: .....13.75" (349mm)  
 Minimum Width: .....3.5" (88.9mm)  
 Maximum Width: .....23.5" (597mm)  
*limited by conveyor width*  
 Weight: .....1.25 lbs (0.57Kg)

### Programming PCB

Maximum board length: .....16" (407mm)  
 Maximum board width .....24" (610mm)  
*limited by conveyor width*  
 Minimum board length .....4.5" (114.3mm)  
 Minimum board width .....3.5" (88.9mm)

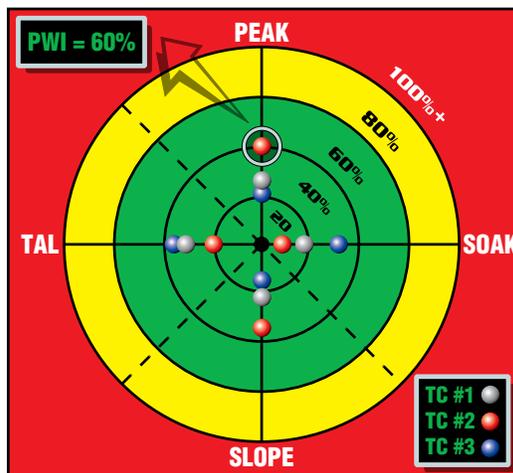
### Materials used:

Stainless steel, aluminum and other proprietary insulating materials



MVP with PCB

## 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 instantly informs the user how the profile is behaving relative to the desired outcome (Process Window). It also helps compare profiles over time. (See the PWI data sheet for a detailed explanation)

## 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.

## COMPUTER CONFIGURATION

### Minimum System Requirements

- 800 MHz Processor / 256 MB RAM<sup>1</sup>
- 2 GB available storage (for product history)
- Video 1024 x 768 resolution / 16-bit
- 1 available USB port (for data download)
- 1 available parallel port or USB port (for software key options)
- Microsoft® Windows® 2000, XP, Vista or Windows 7<sup>2</sup>

1 When KIC Software is running on a computer with other applications, a faster CPU and more RAM may be required.  
 2 Contact KIC for issues with operating systems other than those listed.

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