

**Manage your Reflow Profiling data-stream as you choose via MES, LAN, PC, mobile devices ...**



### What is it?

The ultimate automatic profiling system with network software for data sharing and traceability.

- 1 ea. RPI Automatic Profiling system
- 1 ea. Vantage factory intelligent network software
- 1 ea. RPI to Vantage license

### What will it do for you?

- Full thermal process traceability
- Reduce scrap and rework via real-time thermal process dashboard and notification
- Improve production line utilization
- Faster defect troubleshooting
- Save engineering time with advanced data search and communication features for internal and external use

### How does it work?

- RPI automatically acquires profile data in real-time from each product soldered in the reflow oven.
- The profile is compared to the relevant process window for traceability and for instant alarm on out of spec conditions.

- Basic SPC charts are automatically populated and warning levels set for Cpk level.
- The acquired data are continuously sent to the browser-based Vantage database residing on a server on the factory LAN.
- The Vantage search and filter functions display relevant process data from any connected RPI system in the factory.
- Search on customer or product name, time period, select production line, etc to instantly display the relevant data.
- Share your local URL with authorized personnel to facilitate clear communication where everyone is (literally) on the same page.
- Access all data from any authorized PC or mobile device anywhere.
- Connect the Vantage data to your MES to include your thermal product data in your factory software.
- Manage your thermal process windows for each production run from a central location.





## RPI SYSTEM

### Minimum Hardware Requirements

CPU: Dual Core / 1 GHz Processor PC  
RAM: 2 GB  
Video: 1024 x 768 resolution / 16 bit  
USB(s): 2 available ports (1 for data download, 1 for software key)  
2 additional powered USB ports may be needed  
Ethernet and/or USB: 1 available Ethernet or additional USB  
Minimum Space: 1 GB

### System Components

Data acquisition unit/Probes  
Two (2) thermocouple probes (each probe has 15 thermocouples)  
One (1) data acquisition unit  
One (1) speed encoder  
One (1) board sensor  
One (1) alarm relay  
One (1) light tower  
One (1) KIC RPI software with software protection dongle  
Note: The RPI requires a KIC profiler

### Hardware Specifications

Accuracy:  $\pm 1.2^{\circ}\text{C}$   
Readings/second: 13  
Thermocouples: Type K  
Temperature Range:  $-150^{\circ}\text{C}$  to  $450^{\circ}\text{C}$   
Dimensions: Data acquisition unit (LxWxH):  
308.6mm x 173.5mm x 35.8 mm  
Probes: Length and thermocouple spacing is  
customized to each oven  
Communications: Ethernet, RJ-45 connector  
Computer Capability: PC  
Power Requirements: 12V CD @ 300mA

### Operating Systems

Visit our website at:  
<http://kicthermal.com/support-download/os-compatibility-chart> for product compatibility  
with Windows operating systems

## VANTAGE SYSTEM

### Minimum Hardware Requirements

CPU: Quad core 2GHz+CPU  
RAM: 16 GB  
USB(s): 1 available port  
Minimum Space: 10 GB  
Network connection between Vantage, reflow oven controller(s) and  
browser (mobile, PC), MES or similar.

### Hard Disk Requirements

All page content is stored in the database, while attachments are stored in  
the file system. The more attachments you have, the more disk space you  
will require.

### Supported Platforms

#### Desktop browsers:

Chrome  
Internet Explorer 11

#### Mobile browsers:

Chrome  
Internet Explorer 11

#### Operating Systems:

Windows 10  
Windows Server 2016

#### Databases:

Microsoft SQL Server 2012  
Microsoft SQL Server 2014  
Azure SQL

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