

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°C to 450°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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