



# SRA<sup>®</sup>

SMART REFLOW ANALYZER<sup>®</sup>



- Laser technology for speed measurement
- Instant insight into oven performance
- Compatible with KIC ecosystem
- Profiler embedded in fixture
- 2 year warranty
- 24 hour customer support

## SRA — Smart Reflow Analyzer<sup>®</sup>

*The smart fixture with integrated profiler*

### Identify and track machine performance & stability

- Built-in conveyor speed measurement (No external sensors needed)
- Heat Transfer Index (HTI)<sup>™</sup> for each zone
- Side-to-side and run-to-run comparisons
- Track individual zone performance over time
- PWI<sup>™</sup> — instant process analysis with a single number

### Basic Features

- Fast and accurate manual data collection
- Single screen overview with key machine information
  - Measured zone temperatures
  - Side-to-side uniformity per zone
  - Oven settings
- Unique pallet design allows for more accurate measure of the ambient air temperature
  - Use as machine validation / verification tool
- Now available with NEW Thermal Analysis System Software<sup>™</sup>
- Solder paste specification library for process related calculations
- SPC charting with Cpk for process specs; Cm/Cmk for machine related specs
- Profile stacking capabilities for multiple runs between downloading. 30 profile capability

### Advanced Hardware; Material and Design

- LCP (liquid crystal polymer) enclosure for better heat protection and fast cool-down between runs
- Robust and durable enclosure and shield drop tested from 5 feet onto a concrete floor
- Long lasting NiMH rechargeable batteries for a reliable and safe power source
- Both wall socket charging and USB charging direct from a computer

### Built-in Convenience

- Intuitive insight into the oven stability
- Quick data access and sharing
- Real-time profiling via Wi-Fi through Smart Dock<sup>™</sup> pairing using ANT technology (optional)
- Integrated data collection module - no separate profiler needed
- Automatic shutoff for improved battery life
- Secure and easy thermal shield opening and closing
- Instant data analysis
  - Machine stability and repeatability
  - Zone efficiency
  - How well the profile accommodates the process window



Accuracy: .....  $\pm 0.5^{\circ}\text{C}$   
 Resolution: .....  $0.1^{\circ}\text{C}$   
 Internal Operating Temp:  $0^{\circ}\text{C}$  to  $85^{\circ}\text{C}$   
 Sample Rate: ..... 0.1 to 50 per second  
 Data Points: ..... 72K per channel  
 TC Temperature Range: ..  $-150^{\circ}\text{C}$  to  $1050^{\circ}\text{C}$   
 PC Connection: ..... USB 2.0 (Std-A/Micro-B)  
 Power: ..... Internal rechargeable NiMH battery  
     USB cable connected to PC or power supply  
     10 minute fast recharge for a single profile  
 Wi-Fi: ..... 2.4 GHz  
 ANT: ..... 2.4 GHz  
 Embedded TCs: ..... Type K  
 Dimensions (LxWxH):

200mm .....  $432.0 \times 200.0 \times 23.0$   
 305mm .....  $432.0 \times 305.0 \times 23.0$

Vacuum compatibility: .... 1.12kPa (8.40 torr) up to 45 minutes

*Note: The SRA-Smart Reflow Analyzer software, Thermal Analysis System Software, may interface directly with some oven controllers, eliminating the need for manual setpoint data entry. Please consult your oven supplier for availability.*

Accuracy based on factory calibration.

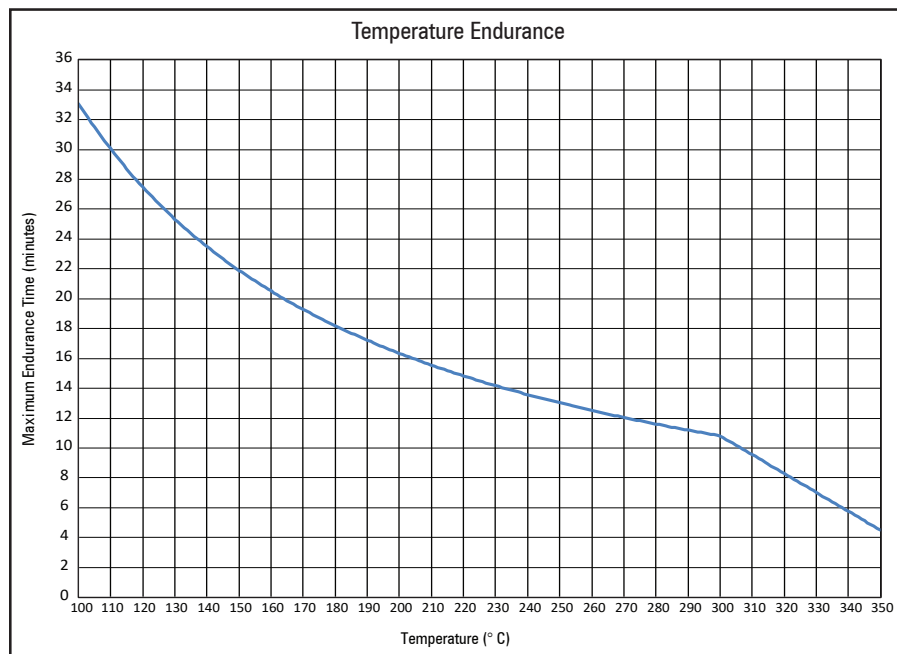
### SRA Smart Reflow Analyzer Kit Contents

Smart Reflow Analyzer	Software Media
Smart Dock (Wi-Fi - ANT)*	Electronic User Manual
USB Cable (A-Male/Micro-B)	Electronic Hardware Guide
Gloves	Getting Started Guide
Power Supply	Calibration Certificate
USB Software Protection Dongle	Carrying Case

\* These items may vary according to specific models ordered.

### Minimum Computer 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 or Smart Dock)  
 1 available USB port (for software protection dongle)  
 Visit our website at <https://kicthermal.com/support/os-compatibility-chart/> for product compatibility with Windows operating systems.



### HTI - Heat Transfer Index™ — A measure of a zone's energy transfer in a single number

The HTI™, or Heat Transfer Index, is a measure of the energy transfer occurring in a given zone. Effective heat transfer will generally yield a more homogeneous board temp (tight delta temperature across all components) and can allow for faster conveyor speeds (more throughput). The HTI value is calculated and displayed for each zone as a single number. The display of this index allows for fast and easy identification of changes in the performance of a given zone.

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