KIC® SRA

SMART REFLOW ANALYZER™

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

SRA — Smart Reflow Analyzer™

The smart fixture with integrated profiler

Identify and track machine stability

- Built-in conveyor speed measurement (No external sensors needed)
- Heat Transfer Index (HTI)™ for each zone
- Side-to-side and run-to-run comparisons
- Track individual zone performance over time
- PWI™ — 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
- Familiar KIC Profiling Software 2G user interface
- 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™ 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

KIC® Making Ovens Smarter

Accuracy: .... ±0.5℃

Resolution: .... 0.1℃

Internal Operating Temp: 0℃ to 85℃

Sample Rate: .... 0.1 to 50 per second

Data Points: .... 72K per channel

TC Temperature Range: .. -150℃ to 1050℃

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): ..... 432.0 X 305.0 x 23.0

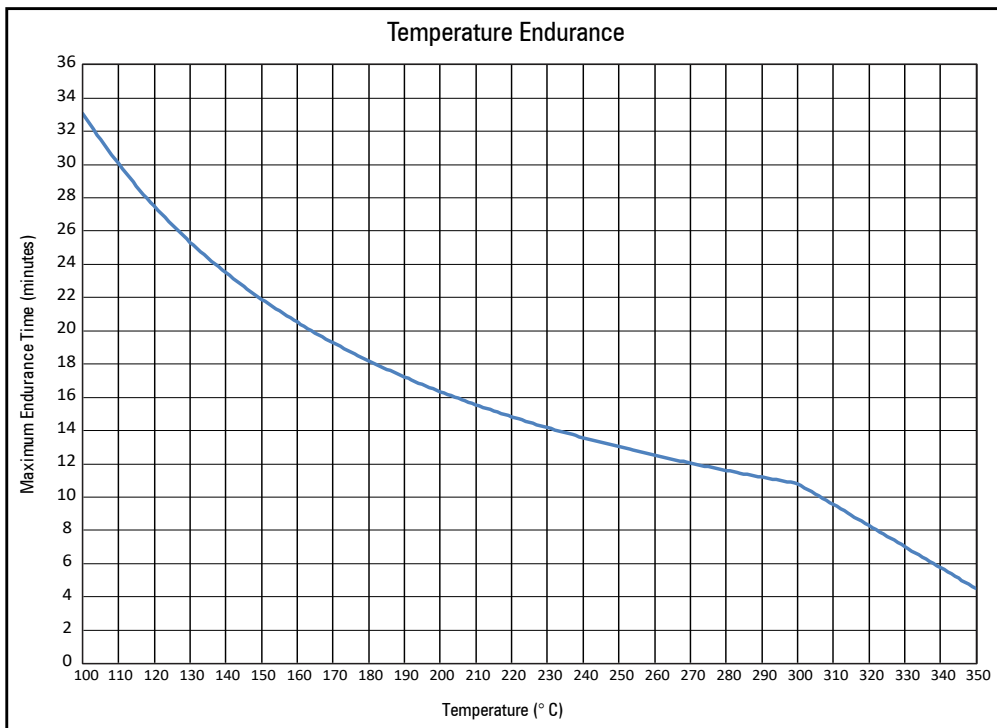Vacuum compatibility: .... 1.12kPa (8.40 torr) up to 45 minutes

Note: The SRA-Smart Reflow Analyzer software, Profiling Software 2G, 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 CD
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 http://kicthermal.com/support-download/os-compatibility-chart for product compatibility with Windows operating systems.

Datalogger Model: data are downloaded to the computer through a USB cable after the run.

Wi-Fi Model: data are sent via Wi-Fi to the computer in real-time during the run. Data are also stored internally for USB download after the run.

Temperature Endurance

Maximum Endurance Time (minutes) vs Temperature (° C)

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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