OvenSENTINEL™, the latest continuous monitoring solution from ECD, sets the new standard in reflow process monitoring and product traceability. OvenSENTINEL™ leapfrogs competitor product to deliver un-matched measurement and visibility - down to the board and profile specification level - isolating and analyzing potentially damaging process variations. Completely customizable with user-specified dashboards, expanded sensor inputs, and flexible data extractions. OvenSENTINEL™ allows detailed and actionable reflow process oversight.

WWW.OVENSENTINEL.COM
Intelligent Continuous Monitoring

Focused on Quality, Driven by Passion

SYSTEM INCLUDES:
- OvenSENTINEL™ Station
- Status Badge - Green, Yellow & Red
- Oven Zone Thermal Probe (custom per specific oven model)
- Installation Kit for your brand of Oven
- Board In & Conveyor Speed Sensors
- OvenSENTINEL™ Software
- Users Operation Guide

SYSTEM OPTIONS:
- Board Dropped - Single & Dual Lane
- Missing Bar Code
- SMTA Interchange - Single & Dual Lane
- Power Monitoring
- Light Tower - Red, Green & Yellow w/Alarm
DYNAMIC MEASUREMENT CAPABILITIES
• Flexible data extraction that goes beyond standard metrics
• Open architecture that is integration-ready for future measurement needs.
• Unique design allowing extended sensor types and measures along with density with location profile technology

AUTOMATED THERMAL PROFILING
• Auto start/arm/profile generation/product change over

CONTINUOUS QUALITY MONITORING
• Precise PASS / FAIL for every board
• Intuitive interface supports multiple lanes, ovens, and factories
• Responsive and programmable event actions and notifications

FULL-FEATURED TRACEABILITY
• Local and remote database support
• Dynamic and full featured traceability record.
• Extended sensor inputs allows for monitoring of additional needed measures like O2

OVENSENTINEL™ SOFTWARE
• Continuous oven monitoring
• Process Data Archiving and Playback
• Automatic Statistical Process Control Charting
• Out-of-Specification Alarm
• Trusted traceability with patent-pending TrueProfile™ technology

INDUSTRY 4.0+
• Industry accepted SQL database with mirroring, aggregation built in.
• Easy integration and full featured reporting delivers actionable data and deep analytics
• CFX Ready
## SPECIFICATIONS

### SENSORS
- Custom Zone Thermal Probe per Oven Make & Model
- Optical Board Entry and Exit
- Inductive Conveyor Speed

### MAXIMUM PROBE TEMPERATURE
- Flexible Probe: 350°C (662°F)
- Solid Probe: 350°C (662°F)

### DISPLAY / NOTIFICATION
- Status Badge / Light Tower (Optional):
  - Green: System In Spec
  - Yellow: System Warning
  - Red: Out-of-Spec Indicator

### PHYSICAL
- Station (W x H x D):
  - 266.7mm (10.5") x 241.3mm (9.5") x 47.6mm (1.88")

### STATION INPUTS (59 TOTAL)
- Thermocouple (24):
  - Type K, ± 1.5°C (2.7°F)
- Digital (7):
  - Boolean: True/False (1/0)
  - Frequency: 10-1,000Hz ± 1 Hz
  - Period: 0-10 Seconds ± 1 Millisecond
- RS-485 (1):
  - MODBUS Protocol
- RS-232 (2):
  - ASCII

### SOFTWARE REQUIREMENTS
- Microsoft Windows® 7 or higher
- OvenSENTINEL™ Software: MS SQL ( Included)

### PATENT

### WARRANTY
- OvenSENTINEL™ System *:
  - 2 Years
- Custom Oven Zone Temperature Probes *:
  - Flexible Probe: 2 Year

* Warranty is void if incorrectly installed

### WEBSITE
- [WWW.ECD.COM](http://WWW.ECD.COM)

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### Awards
- Top rated customer support
- No-cost ECD Online Training
- Award winning software

### Social Networks
- LinkedIn
- Facebook
- YouTube

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