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 unmatched 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

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 INCLUDES:

OvenSENTINEL™ Status Indicator Badge

OvenSENTINEL™ Product Traceability

SYSTEM OPTIONS:

- Board Dropped - Single & Dual Lane
- Missing Bar Code
- SMEMA Interface - Single & Dual Lane
- Power Monitoring
- Light Tower - Red, Green & Yellow w/ Alarm

Focused on Quality, Driven by Passion
**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

**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

**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
# 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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