

OvenSENTINEL™

NEW PRODUCT INNOVATION FROM ECD



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.ECD.COM/OS

Profile

Process End

Monitor Report

Process Origin Conveyor Speed: 70.00 cm/min

170.5°C 160.1°C 160.9°C

50°C Cool-2 (-9)

183°C

Time Above Temperature: Slope: Peak

Total (+/-) Peak-183

°C/sec

Channel Name 150-183°C

sec

PROCESS DEVELOPMENT & VALIDATION

MACHINE QUALITY MANAGEMENT

ECD SINCE 1984

USER INTERFACE ANALYSIS & OPTIMIZATION

COMPONENT DRY STORAGE

ELECTRONICS

BAKING

3D/ADDITIVE

SOLAR

INDUSTRIAL

Made In USA

FEATURES

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



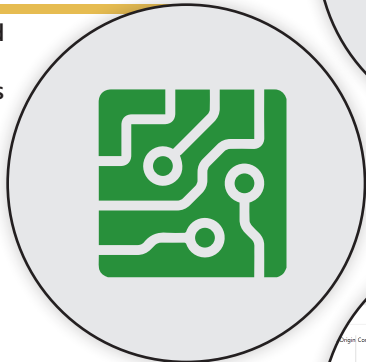
AUTOMATED THERMAL PROFILING

- 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



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



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

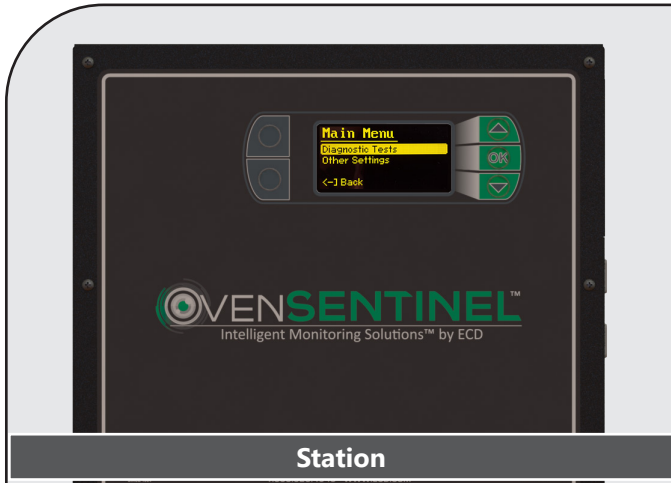


OVENSENTINEL™ SOFTWARE

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



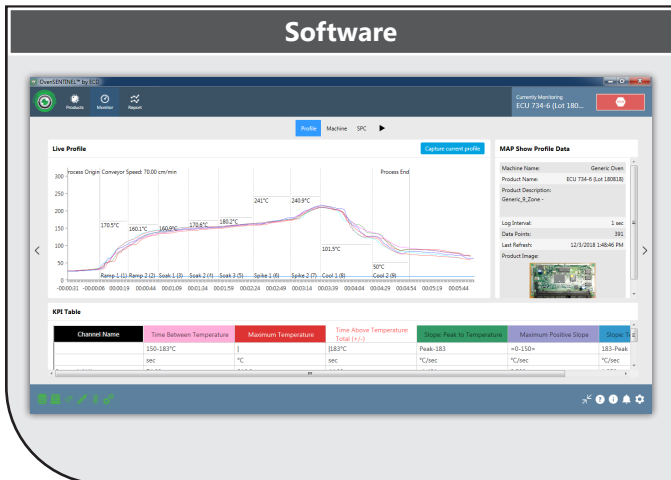
OVENSENTINEL™ SYSTEM



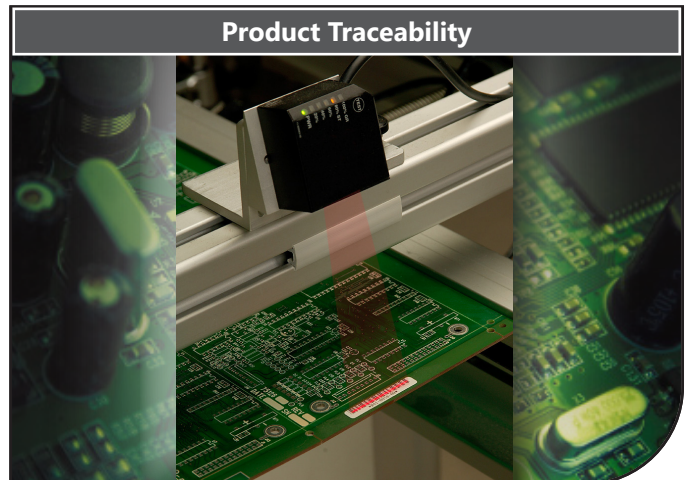
Station



Status Indicator Badge



Software



Product Traceability

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
- SMEMA Interface - Single & Dual Lane
- Power Monitoring
- Light Tower - Red, Green & Yellow w/Alarm

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, $\pm 1.5^{\circ}\text{C}$ (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)

COMPLIANCE



PATENT

Patent Pending.

WARRANTY

OvenSENTINEL™ System*:

- 2 Years

Custom Oven Zone Temperature Probes*:

- Flexible Probe: 2 Years

*Warranty is void if incorrectly installed

WEBSITE

WWW.ECD.COM



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