



YOUTUBE



Award-Winning 24/7 Reflow Monitoring

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.

FEATURES | BENEFITS

✓ 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+

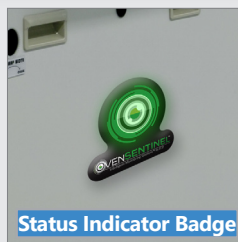
- Industry accepted SQL database with mirroring, aggregation built in
- Easy integration and full featured reporting delivers actionable data and deep analytics

✓ Full-Featured Traceability

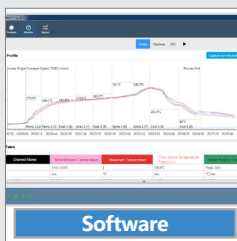
- Local and remote database support
- Dynamic and full featured traceability record.
- Extended sensor inputs allows for monitoring of additional needed measures like O2



Station



Status Indicator Badge



Software



Product Traceability

60
YEARS



60 Years of Excellence, and Still Growing Strong

www.ecd.com



WHAT'S IN THE KIT



STANDARD SYSTEM ECD P/N: E58-6928-00

- 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
- Software
- Users Operation Guide

SYSTEM OPTIONS:

- Board Dropped - Single & Dual Lane
- Missing Bar Code
- SHEMA 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® 10 or higher
OvenSENTINEL® Software: MS SQL (Included)

COMPLIANCE



PATENT

Patent No. 11,774,174

WARRANTY

OvenSENTINEL® System*:

- 2 Years

Oven Zone Temperature Probes*:

- Flexible Probe: 2 Years

**Warranty is void if incorrectly installed*

PRODUCT PAGE

ecdusa.co/os

All information is subject to change at any time without notice.



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