

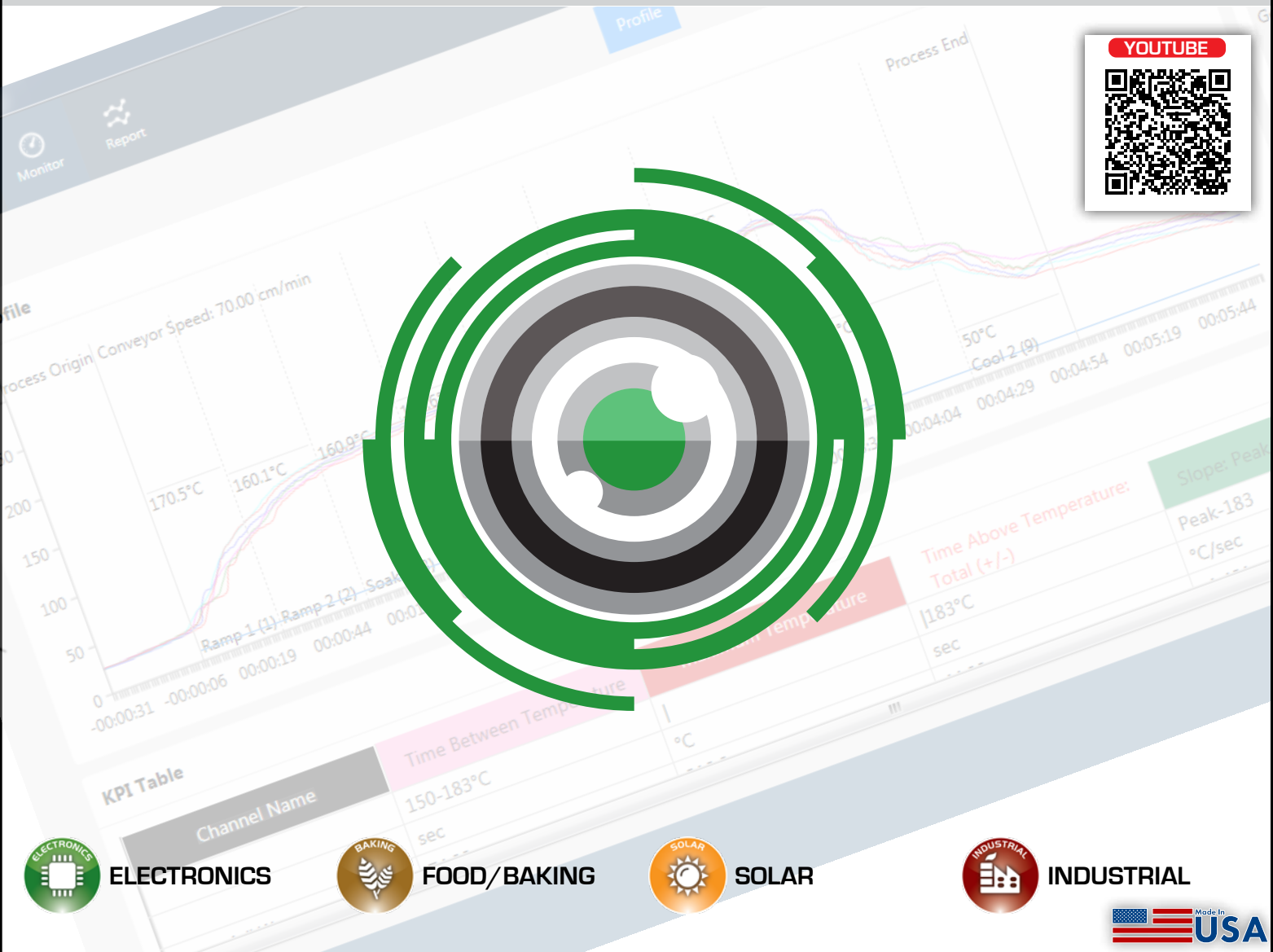
OvenSENTINEL™

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.OVENSENTINEL.COM



ELECTRONICS



FOOD/BAKING



SOLAR



INDUSTRIAL



Intelligent Continuous Monitoring



OvenSENTINEL™ Station



OvenSENTINEL™ Status Indicator Badge



OvenSENTINEL™ Software



OvenSENTINEL™ 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

Engineering Process Control Solutions for Over 50 years

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



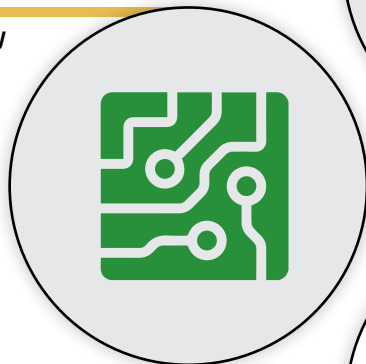
AUTOMATED THERMAL PROFILING

- 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

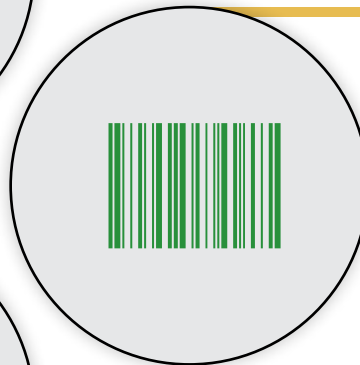


INDUSTRY 4.0+

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

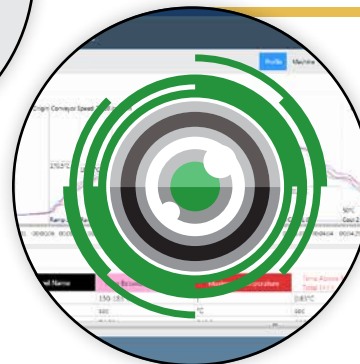
FULL-FEATURED TRACEABILITY

- 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



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)

PATENT

U.S. PATENT No. 6,402,372 & Patent Pending.

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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