

Continuous Product Quality Monitoring

OVENWATCH®
Product Quality Monitoring System



The OvenWATCH® system is designed to continuously monitor the quality of PCB assemblies as they pass through your reflow ovens. The OvenWATCH® system can provide you and your customers with the confidence of knowing that the quality of your PCB assemblies is being monitored 24 hours per day....365 days per year.

OvenWATCH® Key Benefits:

- OvenWATCH® system continuously monitors the quality of PCB assemblies passing through your reflow solder oven....24 hours a day....365 days a year
- OvenWATCH® system creates a boardspecific dynamic thermal profile
- OvenWATCH® system automatically reports any out-of-specification problems & trends before PCB quality is negatively affected
- OvenWATCH® system archives, for later review, the dynamic profile of each PCB assembly processed.
- Optional In & out board sensors bar code reading system provide individual PCB assembly profile tracking
- OvenWATCH® system automatically utilizes statistical process control (SPC) software to establish quality specifications & report out-of-control trends during operation
- OvenWATCH® system reports out-of control trends by alarm lamp auto, e-mail, or page alert message
- OvenWATCH® system includes a dedicated independent Pentium 4-class networked PC
- OvenWATCH® system includes a 1.0" Uni-Barrier and two sets of thermocouples for your process development profiling to create a baseline reference profile
- OvenWATCH® system reduces scrap rate and re-work while increasing yields and production rates
- Now you can provide your customers with the confidence of knowing that the Oven-WATCH® System is monitoring the quality of their products 24 hours per day

System Includes:

- SuperM.O.L.E.® Gold Profiler w/Powerpack
- OvenWATCH® Station w/Alarm Indicators
- Hardened Stainless Steel Sheath Oven Probe; Custom per specific oven model
- Installation Kit for your brand of Oven
- Board In & Conveyor Speed Sensors
- Dedicated independent networked PC
- OvenWATCH® SPC Record/Playback Software
- Users, Software & Quick Study Manuals
- 1.0" Uni-Barrier with Yellow Jacket thermal barrier
- Set of .005"/.127mm Glass 482C/900F Thermocouples

Order ECD P/N: E41-6928-00



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SPECIFICATIONS

OVENWATCH® Product Quality Monitoring System



COMPATIBILITY

For use with ECD OvenWATCH-Ready SuperM.O.L.E.® Gold Profilers. AutoM.O.L.E.® Xpert3 may be concurrently installed on a new or upgradeable major brand reflow oven

DISPLAY / NOTIFICATION

- Green Ready
- Red Out-of-Spec Indicator Lamps alert messaging via page or email

SOFTWARE

- OvenWATCH® SPC:
- 24-hour oven monitoring
 - Process Data Archiving and Playback
 - Automatic Statistical Process Control Charting
 - Out-of-Specification Alarms

PHYSICAL

Control Box:
266.7mm x 279.4mm x 38.1mm (10.5" x 11" x 1.5")

SENSORS

- Custom Thermal Probe per Oven Make & Model
- Optical Board Entry and Exit
- Inductive Conveyor Speed
- 6 board profiling thermocouples [set-of-6 color indexed 0.005" / .127mm dia. & .010" / .254mm dia. 3' K-Type]

MAXIMUM PROBE TEMPERATURE

350°C; 662°F

OPTIONS

Ability to interface with Bar Code Readers for board serial numbers/Lot # ID

WARRANTY

- OvenWATCH® System*:
- 1 Year
- SuperM.O.L.E.® Gold:
- 2 Years
- Custom Oven Temperature Probes*:
- Flexible Probe - 1 Year
 - Solid Probe - 3 Years

*Warranty is void if incorrectly installed



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