



The Global Leader in Thermal Technology



**Built for Today. Ready for Tomorrow.**

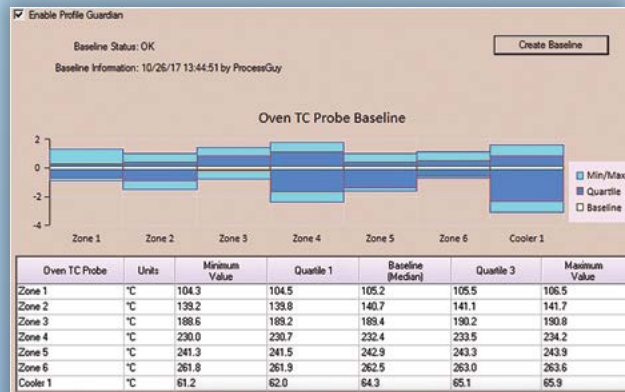
- Redundant process monitor
- Enables product traceability when used with a barcode reader
- Fully integrated with MES/factory communication
- Thermocouple located in each heated and cooling zone

**Key Features**

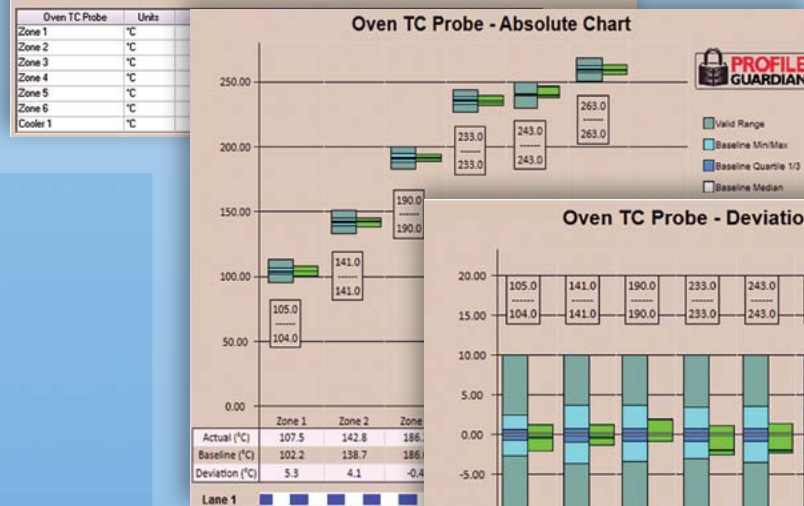
- Creates baseline for each recipe
- Profile Guardian limits and baseline data are stored with the recipe
- Designed to run continuously
- Integrated to software GUI
- Access level control
- Fully redundant controller

Profile Guardian pairs a thermocouple probe at product height with software to monitor temperature deviation from baseline – independent from control TCs. The redundant process monitor is aware of reflow oven state (recipe change, energy savings modes, etc.), and monitor data can be included in host communications (MES) from the oven. Additionally, it provides board level traceability when paired with bar code readers.

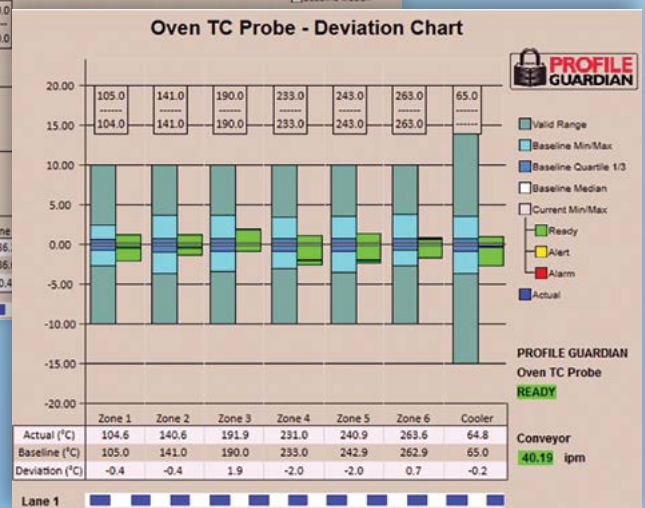
Profile Guardian is fully integrated with the Wincon™ oven control system, each recipe has a baseline. A baseline is a collection of data that captures the median data point (the baseline), the spread and how much variation there is during normal operation. Charts provide the user with simple data visualization, showing the baseline, actuals, recipe set points, current status, and track deviations.



**Establish baseline**



**Absolute view**



**Deviation chart**

**Monitor continuously**

PROFILE GUARDIAN  
Oven TC Probe  
**READY**  
Conveyor  
**40.19** ipm



the industry's most powerful control system with:

## RecipePro

POWERED BY 

- Automatic recipe generator
- Reduces oven set-up time
- Exclusive convection rate algorithm



- Redundant process monitoring
- Provides product traceability with barcode reader
- Full integration with oven MES



- Automatically reduces reflow oven operating costs
- Takes advantage of idle time
- Quick recovery using SMEMA or remote sensor

## INDUSTRY 4.0 READY

BTU is ready for Industry 4.0 and offers many solutions today

- SECS/GEM
- OPC Interface
- Custom MES Interface

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