

# PROsentry

## Continuous Process Profiling System

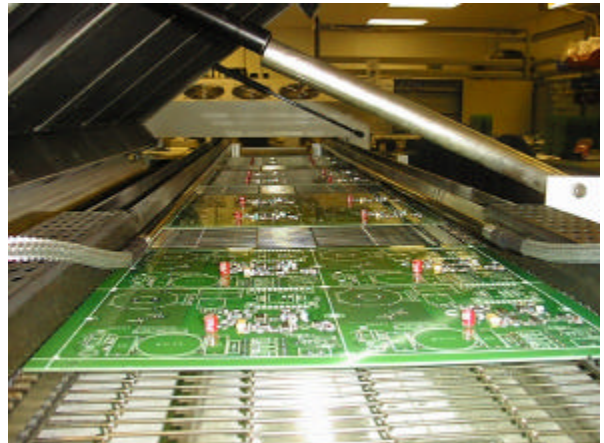
### Total process control

*PROsentry* monitors and reports all the critical parameters of your soldering process, enabling total quality monitoring of every product produced.

Time stamped data is generated and stored to allow any parameter, on any product, at any time to be recalled.

Oven temperature 'snap shots' are continually recorded to enable parameters, conveyor speed, and SPC data to automatically be calculated.

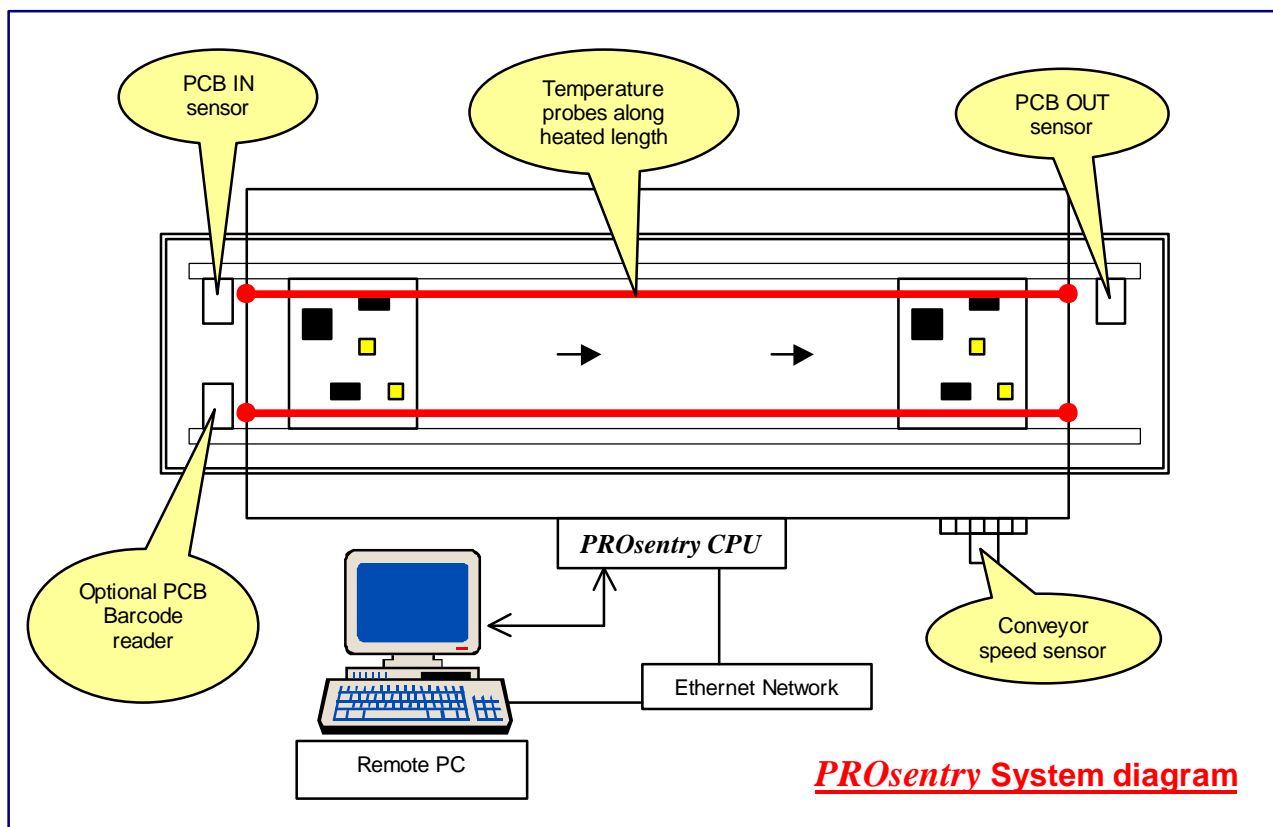
Process Rule Checks (PRC) are then performed, alarms can be raised and people notified of any problems as soon as they happen.



### Three steps to total product traceability...

1. Set-up your product thermal profile using *PROfiler* -Temperature Profiling System.
2. Using this profile, along with temperature measurements recorded at 40 points in the process, *PROsentry* calculates the thermal profile and resulting parameters for each product that passes through the process.
3. *PROsentry* continually performs PRC to determine if profile parameters are within tolerance, alarms or machine signals can be automatically generated if any limits are exceeded.

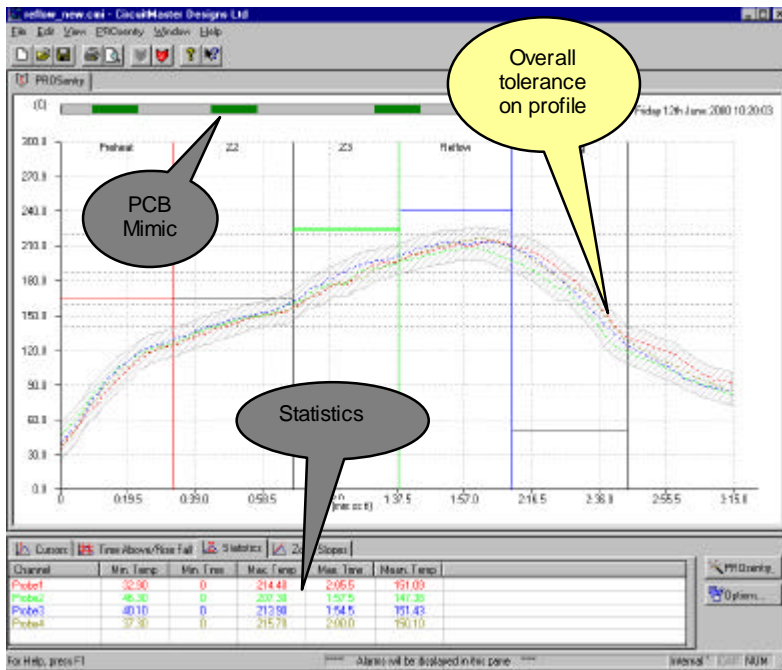
***PROsentry* now ensures EVERY product through the process is monitored and tracked.**



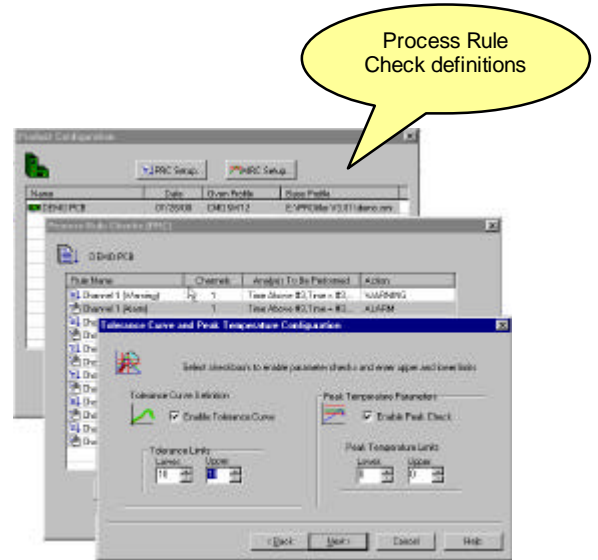
**PROsentry System diagram**

# PROsentry

## Continuous Process Profiling System



PROsentry PC Screen Shots



### System Features and Highlights

- ◆ Accurate ( $\pm 1C/1.8F$ ) temperature measurement at 40 points within the oven
- ◆ Configurable alarms can be programmed to activate relay outputs for machine shutdown or operator annunciation.
- ◆ Programmable 24v inputs allow additional system expansion.
- ◆ Optional 10BaseT Ethernet interface allows machines on a site to be networked for centralised data collation/control.
- ◆ RS485/RS232 interface allows easy interfacing to a PC or third party site management schemes
- ◆ Communication port allows interfacing to *PROfiler* – Temperature Profiling System
- ◆ Central Processing Unit has large internal Non Volatile memory for buffering of data in the event of network failure.
- ◆ Powered from machine 24VDC supply or from external universal mains supply adapter
- ◆ Windows 95/98/NT4 PC software for easy collation of data from machines and output to customer SPC systems
- ◆ Board In/Out sensors with lost board detection allows statistics to be gathered on machine throughput

For sales & distribution information contact

CircuitMaster Designs Ltd  
Kingsway West Business Park  
Moss Bridge Road, Rochdale  
Lancashire, United Kingdom  
OL16 5LW  
[Prosentry@circuitmaster.co.uk](mailto:Prosentry@circuitmaster.co.uk)  
<http://www.circuitmaster.co.uk>

