

# PROfiler UltraSlim

## A new dimension in temperature profiling

In an industry that places ever increasing demands on process quality and productivity, along with the emergence of lead free processes, temperature profiling has never been so critical.

The UltraSlim range of temperature profiling systems will give you confidence and control over your reflow and wave soldering process.

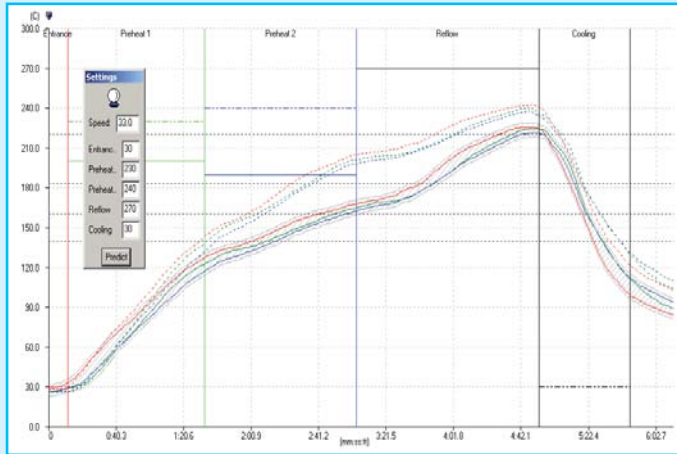
Existing or new lead free profiles can be rapidly captured and analysed, allowing you to reduce production costs and machine downtime.

- Ease the move to lead free solder
- Make machine adjustments from an informed standpoint
- Reduce scrap and rework costs
- Ease process control documentation & overhead
- Use your profiles to maximise production throughput
- Improve process quality and consistency
- Measure and monitor process improvement
- Minimise troubleshooting time on problem processes



### 100% confidence in every PCB produced

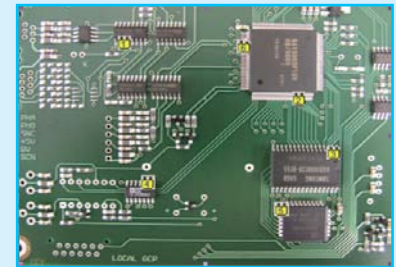
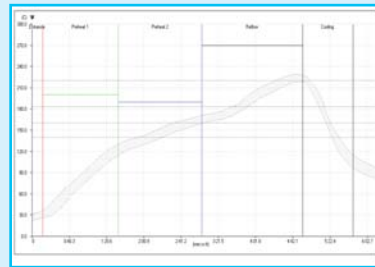
- The small and light datalogger will fit through virtually any machine or process
- Up to 16 measurement channels for profiling of the largest PCB's
- High efficiency, fast cool heat barriers provide protection against lead free processes
- Rapid release barrier system eases datalogger disconnection and download
- Simple yet powerful windows software provides all tools to analyse your data.



Use the PROpredict feature within the software to analyse and modify your process settings without the need for repeated profile runs

Save multiple types of information into a template for future production runs such as oven configuration, tolerance indicators, thermocouple placement.

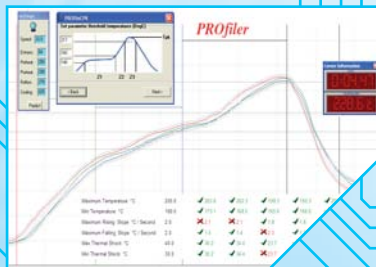
Print comprehensive SPC reports for your reflow and wave processes.



**SPC Check Report**

Parameter	Target	Min	Max	Pass	Fail
Maximum Temperature °C	250.0	240.0	260.0	✓	✗
Min Temperature °C	150.0	140.0	160.0	✓	✗
Maximum Ramp Rate °C/Second	2.0	1.0	3.0	✓	✗
Min Ramp Rate °C/Second	0.5	0.0	1.0	✓	✗
Max Thermal Shock °C	100.0	50.0	150.0	✓	✗
Min Thermal Shock °C	50.0	0.0	100.0	✓	✗

- System accuracy ±1°C (±1.8°F)
- Internal resolution 0.02°C (0.036°F)
- Number of channels up to 16 Type-K
- Sample period 100mS to 10secs
- Storage 32000 data points
- Measurement range -150°C to 600°C (-237°F to 1112°F)
- Batteries 2 x Lithium coin cells
- Battery Life 600 runs (low battery warning)
- Datalogger size 170 x 50 x 8.5mm (6.9 x 2 x 0.3")
- Thermal Barrier size (9ch) 265 x 80 x 20mm (10.4 x 3.2 x 0.8")



- Standard equipment**
- 16 channel UltraSlim datalogger
  - 9 channel heat barrier
  - PC analysis software and download lead
  - 9 Type-K thermocouples and leads
  - Equipment case & spare batteries

- Options**
- 12 & 16 channel heat barrier

- Analysis software**
- Configure the datalogger for accurate process parameter capture
  - Place and name probe icons for total traceability
  - Print comprehensive reports of your reflow or wave soldering process.
  - Predict the effect of conveyor speed and zone temperature changes

**For local sales & distribution contact**

**CircuitMaster Designs Ltd**

Kingsway West Business Park, Moss Bridge Road, Rochdale, Lancashire, United Kingdom OL16 5LW

T: +44 (0) 1706 630606  
 F: +44 (0) 1706 510401  
 E: sales@circuitmaster.co.uk