

PROfiler

Temperature profiling system

An incorrect temperature profile in a reflow or wave soldering process is proven to cause failures in both electronic components and printed circuit board assemblies.

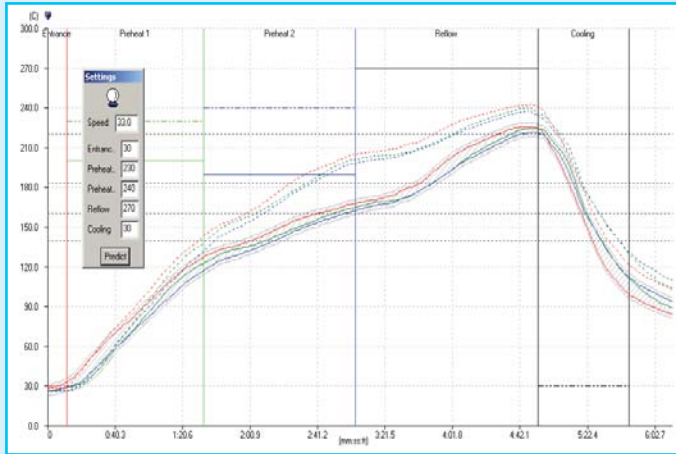
The most effective way to access the thermal shock to components and PCB is to measure the actual on-board temperatures as it travels through the soldering machine.

PROfiler is a six channel high frequency RF temperature profiling system that allows temperature to be gathered and viewed in real time.



High performance data logger

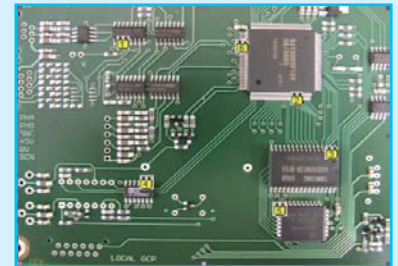
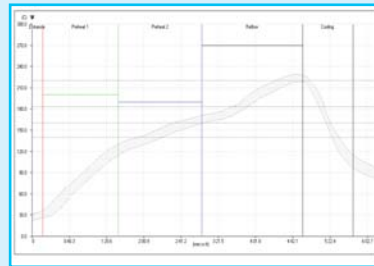
- Standard PROfiler datalogger unit is fitted with 6 Type-K thermocouple channels, offering unprecedented measurement accuracy
- High performance data acquisition circuitry and digital filter techniques means accurate profiles can be gathered with high levels of 50-60Hz mains noise rejection
- 10,000 data points per channel can be held within the loggers memory, whilst RF realtime telemetry system shows the profile as it happens
- Using RF telemetry, a full screen temperature/time graph can be displayed in real time allowing process engineers to make rapid process decisions and minimise production downtime
- Two way RF protocol is used between the datalogger and the PC, resulting in zero data loss during transmission.



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

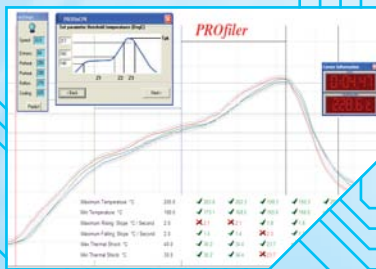
Save multiple types of information into a template for future production runs such as oven configuration, tolerance indicators, thermocouple placement.

Print comprehensive SPC reports for your reflow and wave processes.



SPCheck Report											
Profile Results											
Minimum Temperature °C	140.0	✓	140.0	✓	140.0	✓	140.0	✓	140.0	✓	140.0
Min Temperature °F	284.0	✓	284.0	✓	284.0	✓	284.0	✓	284.0	✓	284.0
Maximum Temperature °C	210.0	✓	210.0	✓	210.0	✓	210.0	✓	210.0	✓	210.0
Max Temperature °F	402.0	✓	402.0	✓	402.0	✓	402.0	✓	402.0	✓	402.0
Minimum Ramp Slope °C/Second	0.0	✓	0.0	✓	0.0	✓	0.0	✓	0.0	✓	0.0
Min Thermal Shock °C	60.0	✓	60.0	✓	60.0	✓	60.0	✓	60.0	✓	60.0
Maximum Ramp Slope °C/Second	0.0	✓	0.0	✓	0.0	✓	0.0	✓	0.0	✓	0.0
Max Thermal Shock °C	60.0	✓	60.0	✓	60.0	✓	60.0	✓	60.0	✓	60.0
Channel Count (Number of Channels)	6	✓	6	✓	6	✓	6	✓	6	✓	6

- System accuracy ±1°C (±1.8°F)
- Internal resolution 0.02°C (0.036°F)
- Number of channels 6 Type-K
- Sample period 100mS to 10secs
- Storage 65000 data points
- Measurement range -150°C to 600°C (-237°F to 1112°F)
- Batteries Ni-Mh Rechargeable Batteries
- Battery Life 600 runs (Intelligent battery management)
- Datalogger size 143 x 111 x 15mm (5.6 x 4.4 x 0.6")
- Thermal Barrier size 202 x 135 x 28mm (8.0 x 5.3 x 1.1")



- Standard equipment
 - 6 channel datalogger
 - Rugged thermal barrier
 - PC analysis software and download lead
 - 6 Type-K thermocouples and leads
 - Batteries and charger unit
- Options
 - Profiler adjustable carrier
 - PROwave pallet
 - RF or non RF formats
 - Spare Type-K thermocouples (any specified length)

For local sales & distribution contact