

Thermal Profiling – “PROwave”



PROwave - Soldering Process Analyser

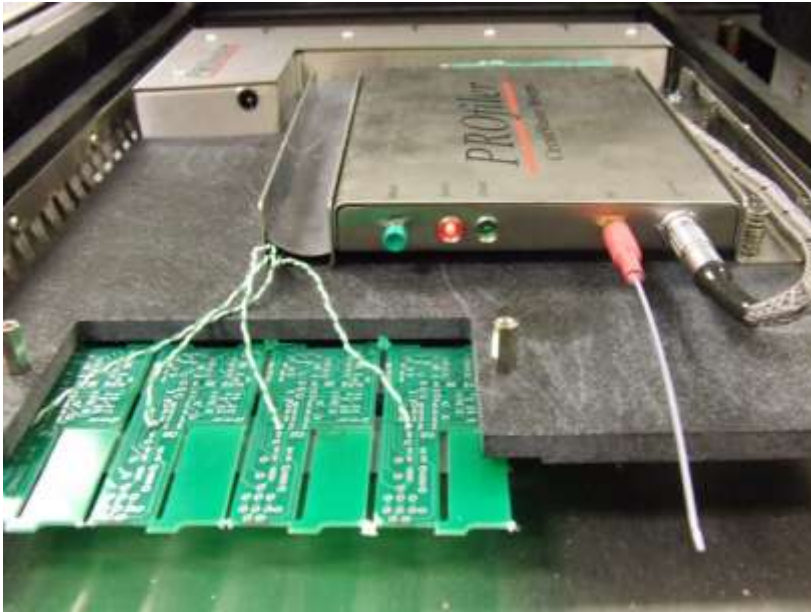
PROwave working together with the PROfiler range of thermal profiling data loggers, will monitor, analyse and report all critical parameters of your wave soldering process. Send the PROwave pallet through your wave soldering machine and accurate measurements of key process parameters are recorded for download to a PC.

Wave Soldering Process Analyser “PROwave” allows you to quickly and efficiently perform quality and diagnostic checks resulting in:

- Improved process quality
- Reduction rework and production costs
- Reduced machine downtime
- Increased process traceability on all key process parameters

Improve wave solder process performance and quality

- A patented system using an array of titanium probes provides critical wave information
- The solder wave is monitored across its entire width, now making it possible to detect voiding or machine parameter fluctuations at points all along the wave.
- Monitor and analyse up to 6 channels of thermal profile information with the Thermal Profiling Data Logger - “PROfiler”
- View 2D solder wave contact area map and dwell time graphs on screen
- Analyse pre-heat temperatures, conveyor speed and parallelism
- Save and print a complete record of your process with the PC software



The measurements taken during the run are used to construct a 2D contact area map. Overlay previous profiles to analyse the repeatability of your process. Print a comprehensive SPC report providing, dwelling times, belt speed, min/max temperatures along with many more key parameters.

Thermal Profiler Data Logger "PROfiler"

System accuracy	±1°C (±1.8°F)
Internal resolution	0.02°C (0.036°F)
Number of channels	up to 6 Type-K
Sample period	100mS to 10secs
Storage	65000 data points

Wave Soldering Process Analyser "PROwave" - Pallet

Channels	24-48 dependant on width
Sampling	10mS
Storage	> 10,000 events
Size	235-464 x 305 x 28mm (9.25-18.3 x 12 x 1.1")

Standard equipment

- 6 channel RF Temperature Profiling Data Logger "PROfiler"
- "PROwave" - wave soldering pallet
- PC analysis software and download lead
- 6 Type-K thermocouples
- Batteries and charger unit

Options

- Custom size pallet
- Extender module
- Reflow barrier
- PROfiler adjustable carrier

For more information please contact our sales department.
sales@circuitmaster.co.uk or +44 (0) 1706 630 606