

PROwave

Wave soldering process analyser

PROwave working together with the PROfiler range of dataloggers, will monitor 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.

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

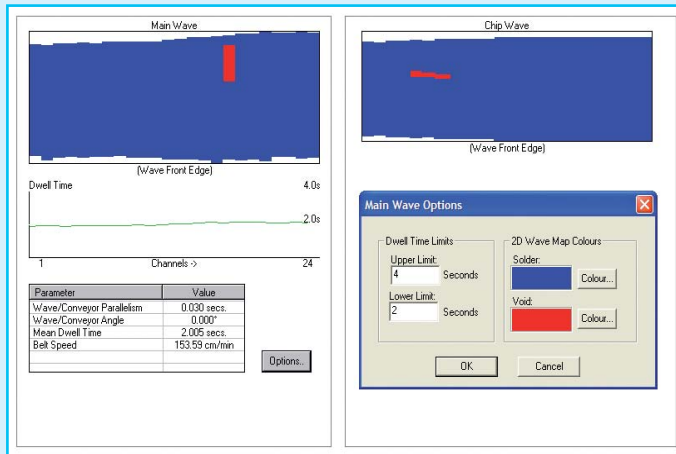


Improve wave solder process performance and quality

- A patented system using an array of titanium probes provides critical wave information
- The solder wave is monitored across its entire width, making it now possible to detect voiding or machine parameter fluctuations at points all along the wave.
- Monitor up to 6 channels of temperature profile information with the PROfiler datalogger
- 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



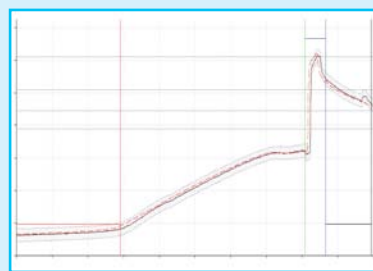
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The measurements taken during the run are used to construct a 2D contact area map

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.



The image shows an SPC Check Report. It contains a table with columns for 'Parameter', 'Target', 'Upper Control Limit', 'Lower Control Limit', and 'Actual Value'. The report includes data for various parameters such as 'Wave/Conveyor Parallelism', 'Wave/Conveyor Angle', 'Mean Dwell Time', and 'Belt Speed'. The report also includes a 'Standard Deviation' column and a 'Process Capability' column.

PROfiler Datalogger

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

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 Profiler datalogger
- 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

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