solderstar* PRO

3 in ONE

REFLOW • WAVE • VAPOUR

Solderstar Pro

The **only** thermal profiling device you require, whichever soldering process you operate...

solderstar* Pro

MAXIMISING PRODUCTIVITY

The moment you incorporate Solderstar Pro technology into your production process you immediately start to enjoy significant productivity benefits. By establishing greater control of all your soldering process you will experience a dramatic increase in productivity thanks to enhanced levels of process optimisation. You'll also ensure greater product consistency thanks to the improved solder joint quality, which in turn enables you to maintain a higher level of process repeatability. And in addition, you'll generate considerable cost savings by reducing the need for re-work.

The Solderstar benefits are not restricted to productivity, quality and cost advantages. Thanks to the intelligent software integrated into the system it will also simplify all your essential QA and process documentation.

VERSATILE TECHNOLOGY AT YOUR FINGERTIPS

The thing about the Solderstar Pro is that whatever soldering process you're running it keeps control within the hands of the manufacturer... but significantly... it minimises the need for human involvement. Above all, it is designed to be extremely user-friendly, whether it is being operated by temperature profiling experts or novice operatives. Solderstar has designed for interchangeability, with the most advanced software that is easy to understand and operate and it is compatible with most commonly used SMT hardware.

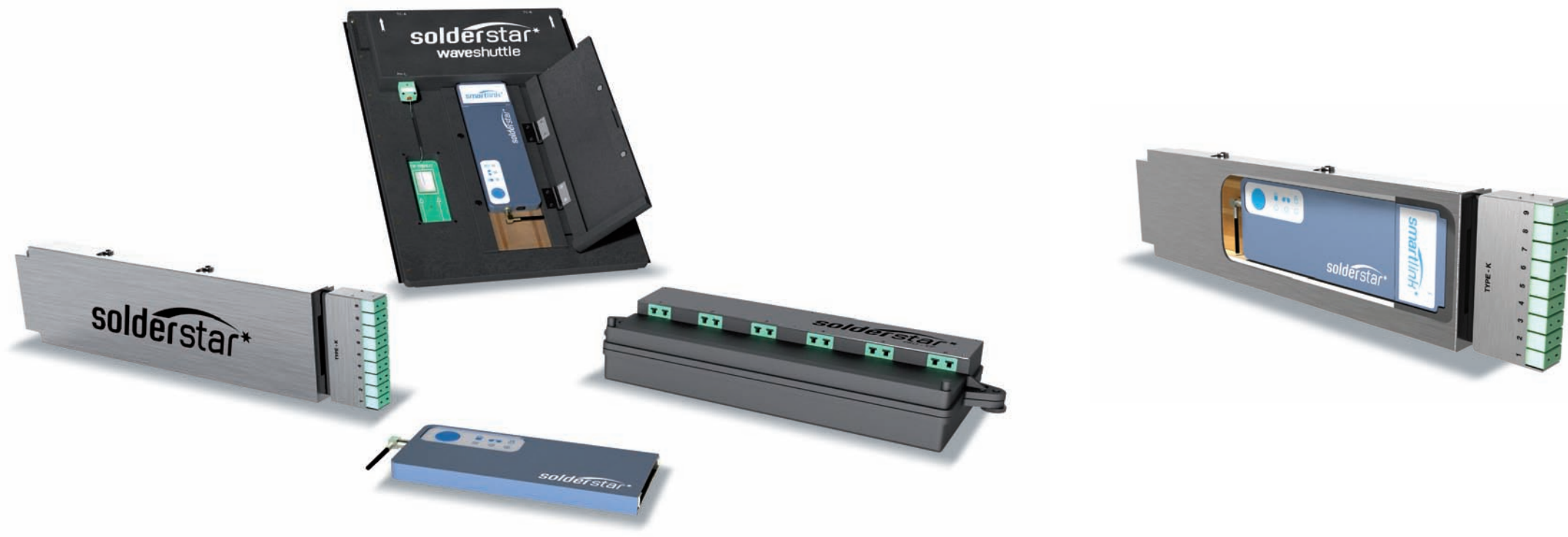# Solderstar Pro ...simple and precise quality control.

UNRIVALLED ACCURACY FOR MULTIPLE SOLDERING PROCESSES

With the emergence of lead free soldering within the electronic manufacturing industries, one company had the vision, experience, industry knowledge and technical ability to create the new generation of advanced, instrumentation capable of providing the standard of process monitoring technology required across all soldering processes. Solderstar has continued to develop newer, even more innovative solutions and today the Solderstar Pro provides the ultimate in versatility.

It is the only device you need, providing easy-to-use, fully affordable thermal quality-control for Reflow, Wave and Vapour phase processes.

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OUR UNIQUE APPROACH

At the heart of our profiling systems is the versatile Solderstar Pro data-logger; a unique instrument that provides unprecedented flexibility, measurement performance and durability in what is the industry's smallest footprint. Small, light and robust, this reliable harsh-environment data-logger allows accurate data capture from any soldering process.

Packed with advanced features, the Solderstar Pro provides power, communications and memory to a range of process specific devices via the innovative SmartLink connector system. This interface allows docking to a range of heat-shields and process specific accessories to form a versatile and scalable solution.

Solderstar's one logger, multi-process concept maximises your investment and offers real world savings through reduced training and on-going service or calibration costs.

WAVE

The WaveShuttle PRO provides the perfect platform for in-depth wave solder machine setup and monitoring. Robustly constructed, this intelligent fixture extends the Solderstar PRO concept through the Smartlink connector system, providing highly accurate and repeatable measurements of all key process parameters.

Titanium contacts fitted to the underside are used to measure dwell time, parallelism, wave height and conveyor speed. This superior approach has been proven to offer increased resolution and repeatability for wave specific measurements.

Top side pre-heat profiles are captured from left and right side simulator boards, with solder pot temperature measured via a dedicated sensor.

A single pass through the machine ensures the capture of all key process data. The data-logger can then conveniently and safely be removed from the hot pallet for download and analysis. Alternatively, live data can be viewed via wireless telemetry.

Wave Solder focussed software allows comprehensive analysis and documentation of your entire process, including integrated tools for SPC.
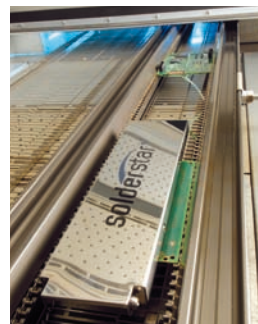
Available with:
5 CHANNELS · **USES TELEMETRY** · **smartlink CONNECTION SYSTEM**

Solderstar Pro   ...simple and versatile thermal profiling for **every** solder process.

UNRIVALLED ACCURACY FOR MULTIPLE SOLDERING PROCESSES

With the emergence of lead free soldering within the electronic manufacturing industries, one company had the vision, experience, industry knowledge and technical ability to create the new generation of advanced, instrumentation capable of providing the standard of process monitoring technology required across all soldering processes. Solderstar has continued to develop newer, even more innovative solutions and today the Solderstar Pro provides the ultimate in versatility.

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REFLOW

With solutions available for profile setup and ongoing process control, the Solderstar PRO is designed for manufacturers who want to guarantee control across their manufacturing process.

Relentless miniaturisation of electronic assemblies has created a need for compact profiling solutions within height and width restricted processes. Thanks to a continuous refinement programme, Solderstar's products offer the industry's smallest footprint, with a wide range of compact heat-shields providing a scalable, future-proof solution for all levels of reflow solder profiling.

A live telemetry link relays profile information back to the user as the system rides through the machine, allowing jams to be detected instantly and process adjustments in real-time.

The complete range of software tools provided allow capture, analysis and optimisation of your reflow process; guaranteeing minimum defect, lowest energy cost, or highest throughput.

DeltaPRObe is a convenient, adjustable fixture fitted with matched sensors. It employs a capture and compare approach to simplify periodic process validation and removes the need for repeated use of fragile test boards.

Available with:
6 CHANNELS · **9 CHANNELS** · **12 CHANNELS** · **16 CHANNELS** · **SOFTWARE** · **USES TELEMETRY** · **smartlink CONNECTION SYSTEM**
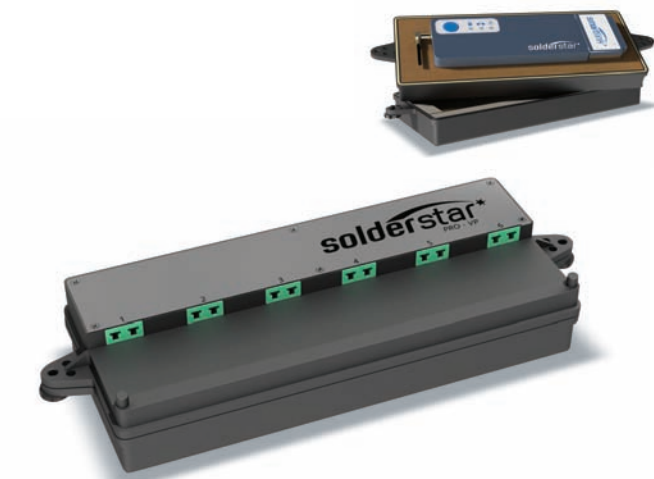
VAPOUR PHASE

Vapour Phase Soldering has emerged as an important process for both high quality and high reliability production. Whether batch or inline, atmospheric or vacuum, the Solderstar solution gives you the ability to better understand and control your production quality.

A two-piece, low mass heat-shield gives protection whilst minimising process impact, allowing operation across pre-heat, vapour and vacuum stages. Once retrieved from the process, the hot shield can be opened allowing data download and rapid air cooling, minimising the potential for instrument damage.

Alternatively, captured data can be transferred by wireless telemetry to any selected PC station, allowing real-time profile viewing and analysis by the user.

Dedicated software allows vapour phase machines to be defined, enabling the process to be controlled to the same extent as conventional reflow ovens.

Available with:
6 CHANNELS · **8 CHANNELS** · **USES TELEMETRY** · **smartlink CONNECTION SYSTEM**

SOFTWARE

Solderstar's class leading, industry focussed software tools provide a comprehensive, easy to use analysis and process documentation solution for all manufacturers of electronic assemblies.

Built on intelligent database technology, these tools simplify the process of managing, storing, searching and saving product information, recipes and profiles. Data centralisation also eases multi access, transfer, relocation and back up of process data on local or remote network drives. The user editable oven and solder paste libraries come preconfigured with many popular machines and solder pastes.

A unique graphical presentation gives instant visual feedback of the process status, with Solderstar's Parameter Match Value (PMV) scoring how well each parameter matches the optimum.

Integrated SPC tools allow charts to be produced instantly from selected profiles in the database. Full annotation and configurable printouts are available for hardcopy or email distribution simplifying essential QA and process documentation.

For details about how Solderstar Pro
can help your business, please call:

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Alternatively you can email us at:

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solderstar*
PRO

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