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Press Release

Solderstar to Unveil New Soldering Technologies at Productronica 2023

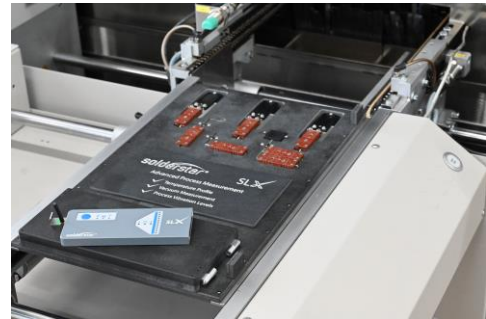
Booth A4.246/4

Solderstar, a leading supplier of temperature profiling equipment for reflow, wave, vapor, and selective soldering, is set to make significant strides in the industry at Productronica 2023 from 14-17

November. Located at Booth A4.246/4, the company will demonstrate its latest technological

advancements and provide the first-ever reveal of a

revolutionary new soldering process control technology poised to transform the measurements of advanced soldering applications.



At the forefront of Solderstar's showcase is the Reflow Shuttle, an innovative solution designed to transform reflow process verification. The Reflow Shuttle represents a significant leap forward in the electronics industry, offering precise measurement of critical reflow parameters and bringing unprecedented accuracy and insight into the soldering process.

The Reflow Shuttle boasts a comprehensive set of features to address the complexities of modern reflow environments. It utilises an array of independent sensors to measure top and bottom temperature profiles, providing a comprehensive view of the reflow oven's performance. This detailed data allows engineers to fine-tune and optimise soldering processes with unparalleled precision.

In addition to temperature profile verification, the Reflow Shuttle assesses zone heater uniformity, ensuring that heat is evenly distributed across the soldering environment,

reducing the risk of defects and improving product quality. Understanding the impact of vibration is crucial in soldering processes, and the Reflow Shuttle captures process vibration in X, Y, and Z axes, allowing engineers to analyse and mitigate the effects of machine vibrations on product quality.

Furthermore, the Reflow Shuttle provides insights into conveyor performance by measuring line speed, helping manufacturers maintain consistent production rates and product quality. For processes that involve vacuum stages, the Reflow Shuttle offers an optional measurement module to verify vacuum levels down to 10 mbar. It automatically calculates hold time below the desired vacuum level and monitors pull-down and release rates, ensuring precise control over the soldering environment.

Mark Stansfield, CEO at Solderstar, said: "In today's intricate reflow environments, conventional temperature-based measurements are inadequate. The Reflow Shuttle provides an all-encompassing solution, offering temperature data and vital insights into heater uniformity, vibration, line speed, and vacuum levels. This gives engineers comprehensive insights into their soldering processes, enhancing product quality and efficiency.

"We are looking forward to welcoming visitors to our stand at Productronica, where we will showcase our latest cutting-edge technologies and introduce an exciting new product that promises to make a significant impact."

The Reflow Shuttle is engineered for ease of use, enabling machine operators to collect data independently and reducing dependence on specialised engineering personnel. Seamless integration with Solderstar's Shuttle Central software streamlines data collection and analysis, optimising efficiency.

Also taking centre stage on the stand is Solderstar's zero set-up SLX thermal profiler. SLX is an accurate, robust, ultra-compact, battery-powered datalogger used for measuring and recording process parameters from any soldering process. The SLX unit can be docked onto any SMARTLink reflow heatshield or other process accessory, and the system will auto-configure itself for data capture.

Visitors to Productronica, taking place from 14-17 November, Munich, Germany, are invited to explore these ground-breaking solutions at Solderstar's Stand A4.246/4. Solderstar's team of experts will be on hand to provide detailed insights, live demonstrations, and answers to technical enquiries.

www.solderstar.com

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For all media enquiries contact Sallystone@live.co.uk

Editor's Notes:

Solderstar is a recognised technology leader in the design and manufacture of thermal profiling systems for electronic soldering processes.

With offices in UK, USA and a technical centre in Germany the company offers the most comprehensive range of process control support and solutions for electronic manufacturers.

Solderstar personnel have over 30 years of temperature profiling design experience, combined with in-depth industry and process knowledge, and a 'can do' attitude to product and process improvement.

When Solderstar launched its first product offerings, lead-free manufacturing was, for most in the industry, a dot on the horizon. For Solderstar, lead-free soldering was already upon us. It was recognised early-on that soldering within electronic assemblies was set to go through something of a revolution, with new thermal processes needing to be established and controlled like never before. It was seen that electronics manufacturers all over the world would need improved thermal profiling solutions capable of meeting the demands of the newly emerging thermal processes and advancement in soldering machines and ovens.

To respond to this, Solderstar developed class leading instrumentation and software that streamline the whole profiling process across reflow, wave, selective and vapour phase soldering processes. Solderstar has grown from strength to strength, completely dedicated from the outset to the needs of the electronic manufacturer. Solderstar is committed to excellence in design, customer support and product innovation.

Today, Solderstar products undoubtedly have 'raised the bar' and will continue to set the standard through our commitment to continual improvement of our products, and our ability to combine powerful functionality with robustness, accuracy, and simplicity.

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