

Press Release

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ACE Wave Height Monitor Enhances Process Stability for Precision Selective Soldering

Spokane Valley, Washington, USA – ACE Production Technologies, Inc. announces a breakthrough in precision solder wave control through the development and integration of a new wave height monitor and control module. This new control feature, installed on ACE's KISS line of selective soldering equipment, can maintain solder wave heights to within +/- 0.005", which is critical when selectively soldering the smallest, tight pitch components in high volume automated production environments.



In making the announcement, Al Cable, President, said, "This new capability is particularly effective when working with the smallest wave nozzle sizes, under 6mm down to 1.5mm, and selectively soldering tight pitch component areas. When we combine this new wave height monitoring circuit with our precision nitrogen inerted solder delivery system and the availability of a nitrogen air-knife, we now have all the tools needed to perform the most demanding selective soldering operations in a highly reliable, volume oriented production operation."

According to Cable, the monitoring methodology incorporates resistive measurements of wave height relative to a known reference. This is performed at

programmable intervals during extended production runs, and closed-loop feedback is then used to automatically adjust solder pump speeds and therefore wave heights.

ACE Production Technologies is a designer and builder of simple, affordable selective soldering systems suitable for lead-free electronics assembly. ACE's line of rugged, reliable selective soldering systems includes the KISS 101, KISS-102, KISS-103, and the KISS-104 models. All of these flexible systems feature lead-free compatible solder pots and are ideal for low to medium volume assembly, prototyping, and rework, post-reflow offline assembly, and other soldering applications such as odd-form devices. For more information about A.C.E., including sales and technical, contact ACE Production Technologies, INC., 3010 N. Industrial Park, 1st Street, Spokane Valley, WA 99216; Tel. 509-924-4898, e-mail sales@ace-protech.com; www.ace-protech.com.

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