

News Release

For Immediate Release

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Camalot Announces PCB Temperature Monitoring on Prodigy Dispenser to Ensure Underfill Process Stability

Hopkinton, Massachusetts, May 20, 2019 – ITW EAE is introducing a patent pending option for the Camalot Prodigy dispenser that was developed to ensure process stability and increase yields for underfill applications. In applications where board heat is required, a constant product temperature through the dispense process is critical to ensure process stability and repeatability. Underfill materials vary in viscosity and filler types, therefore the heat requirement for the board also varies.

The new IR (Infrared) Temperature Sensors measure in “real time” the top-side board temperature which allows the system to provide closed-loop control to maintain the product within the specified temperature range.

The sensors provide a closed loop, fail safe means to monitor and control the “top side” board temperature through each of the process zones (pre-heat, dispense heat and post-heat zones), which are typically used during the underfill process. The passive IR sensors can be configured in any or all three conveyor zones in single or dual lane systems.

“Closed-loop control of the heat process is critical when dispensing underfill,” said Hugh Read, ITW EAE Dispenser Group Business Manager. “Yields are impacted due to poor capillary flow when the board temperature is outside of specified tolerance range. IR sensors ensure higher quality by improving heat stability during the dispense process.”

Camalot is a brand of ITW EAE, a division of Illinois Tool Works, Inc. They are a leading manufacturer of automated dispensing equipment for the printed circuit board, semiconductor, hybrid, automotive, industrial and medical industries. ITW EAE brings together world-leading brands of electronics assembly equipment including MPM, Camalot, Electrovert, Vitronics Soltec, and Dispatch. For more information visit www.itweae.com.