

Press Release

Viscom S3088 conformal coating inspection with extended inspection scope

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The S3088 Conformal Coating Inspection (CCI) system inspects protective conformal coating quickly, with full reliability. Viscom now offers this inspection step with an extended inspection scope. The system can now be equipped with angled cameras for reliable inspection between components. A wet inspection that checks the conformal coating for flaws before complete curing also is available. Viscom will demonstrate the S3088 CCI system in booth A1.217 at electronica, scheduled to take place Nov. 11-14, 2014 at the Messe München.



Transparent protective conformal coating protects electronics assemblies against damage from moisture and wetness. Typical defects include cracks, flaws, layers that are too thin or too thick, smearing, impurities or splashes, among others. The S3088 CCI checks the entire range of defect features quickly and reliably.

The system works with efficient ultraviolet illumination, which highly contrasts the UV-reactive protective conformal coating against the background material. With the corresponding spectrally sensitive cameras, the system clearly recognizes the characteristics of the conformal coating. With a resolution of 11.7 or 23.5 μm / pixel, even the smallest flaws are easily visible. The system identifies these flaws and classifies them as defects. At the same time, various indicators that can be used for optimizing the coating process are evaluated. The inspection system ensures that the IPC-CC-830 directive for qualification and performance of electrical insulating compounds for printed circuit boards is maintained.

The new feature: The system can now be equipped with angled cameras. With them, the spaces between the components also can be reliably inspected for flaws. Additionally, wet inspection is now available as an option. Here, in addition to adaption of the inspection, the system has been ventilated and protected against solvents and moisture. This feature meets a strong market demand and enables optical inspection before the conformal coating has cured. As a result, defects can be recognized at an early stage. As a result of flexible algorithms, the system can be quickly adapted to different conformal coatings. Simple inspection programs can be created in just a few minutes.

The S3088 CCI works with the Viscom SI inspection software and offers the same user interface and program generation as other inspection systems from the Viscom portfolio. On this basis, traceability concepts and special tests such as reading labels with a data matrix code (DMC) can be realized. As a result, the system can be easily integrated into production control systems (MES).

Image caption: Viscom S3088 CCI inspection system for protective conformal coating inspection

About Viscom

Viscom AG develops, manufactures and sells high-quality inspection systems. The portfolio encompasses the complete bandwidth of optical and X-ray inspections. In the area of assembly inspection for electronics manufacturing, the company is among the leading suppliers worldwide. Viscom systems can be configured specific to the customer and can be interlinked. The company headquarters and manufacturing location is in Hanover, Germany. With a wide network of branches, applications centers, service support points and representatives, Viscom is represented internationally. Founded in 1984, since 2006 Viscom has been listed on the Frankfurt Stock Exchange (ISIN: DE0007846867). For additional information: <http://www.viscom.com>