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zero Ion CLEANLINESS TESTER

Zero-Ion g³
Ionic Contamination (Cleanliness) Tester
For Ionic Contamination Testing of Populated and Bare PCB's

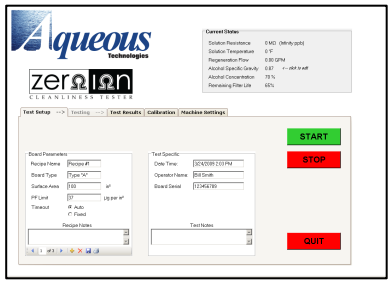
Specifically cited in MIL-2000A, the Zero-Ion ionic contamination tester is one of the industry's most popular Resistivity of Solvent Extract (ROSE) testers. IPC-001 and IPC TM650 recognize ROSE testing as an approved method of determining the cleanliness of circuit assemblies.

Today, in an environment where densely populated surface mount technology has become commonplace, and where ISO, TQM, Six Sigma, and other quality standards are commonplace, cleanliness verifications are frequently required and essential.

The Zero-Ion has been in constant production since the 1980's. Thousands of customers rely on the Zero-Ion to determine the final cleanliness of post-reflow circuit assemblies as well as bare boards. The Zero-Ion g³ is the newest, most advanced Zero-Ion ever designed.

Aqueous Technologies' Zero Ion ionic contamination tester is equipped with the following features and benefits:

Process Control
The Zero-Ion g³ is powered by a Windows-based PC for unerring accuracy. A large 19" (48cm) LCD user interface provides clear, organized real-time process information. Intuitive tabbed display screens conveniently organize both stored and real-time process data. Built-in SPC data recording captures all relevant testing data. An integrated SPC database lookup allows users to search for desired data sets, including SPC results by date range, recipe name, board serial number, etc. Cleanliness results may be stored for later viewing or may be printed onto any Windows compatible printer. Additionally, the Zero-Ion g³ may be networked for remote viewing of all SPC data.



An optional barcode scanner provides one-touch entry of a board's serial number or other process data.

The PC-based control system automatically calculates NaCl/square equivalence (per military and IPC specifications), operates in an automatic or manual mode, and is equipped with virtually limitless test recipe capabilities..

Meets Cleanliness Specifications
The Zero-Ion Ionic Contamination Tester meets industrial cleanliness specifications including MIL-STD-2000A, MIL-P-28809, IPC-TM-650, and ANSI/J-STD-001B, IPC-TM650.

Submerged Sprays
The submerged sprays provide excellent agitation of the test solution while eliminating test inaccuracies caused by carbon dioxide adsorption associated with other open-air spray systems. The combination of test-board submersion and immersion spraying creates an environment whereby all of the soluble contamination is extracted and measured. It is this immersion spraying action that gives the Zero Ion system its superiority in ionic contamination detection.

Dynamic Measurement Technology
Modern cleanliness testing frequently requires the testing of assemblies reflowed with no-clean solder paste. Unlike other less sensitive static-based systems, the Zero-Ion g³ tester utilizes a dynamic measurement technology, the method of choice for detecting (weak) ion activators commonly found in no-clean fluxes. With dynamic measurement technology, the contaminated test solution is monitored and then filtered to supply de-ionized test solution back to the test chamber, resulting in greater solubility / sensitivity. The increased solubility eliminates the "saturation limit effect", associated with other static measurement methods.

Cost Effective
The Zero Ion tester is extremely cost effective. Its price is among the lowest in the industry, yet its performance is second to none.

Ambient Testing.
Unlike other systems which require heated test solution, the Zero-Ion performs all tests at ambient temperature, eliminating the need for heaters and their associated safety concerns. Ambient temperature testing also reduces machine startup times and test solution evaporation.