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IONIC CONTAMINATION TESTER CT100



The CT100 is designed to make simple and accurate ionic contamination test on big boards (up to 290 x350 mm) in fully compliance with MIL-P-28809, MIL-STD-2000A, DEF-STD 10/03, IPC-TR583, IEC Standards...

These measures are necessary to check the cleanliness of boards and assemblies after cleaning, or in case of new solder process parameters (no clean process, conformal coating, lead free alloy with new activator...), for quality control and approval.

In humid atmosphere, the ionic contamination is transformed in electrolyte catching moving ions which can create failures on electronic assemblies (dendrites, bad insulation.....).

The ionic contamination test will point out these risks, secure accordingly assembly process and will extend life duration, reliability of end product.

Process is at first to clean efficiently the specimen using chemistry 2-Propanol and de-ionised water (75/25 or 50/50) while analysing continuously contamination development in the cleaning solution running in close loop tubing.

Measurements are driven by PC. The operator registers the sample dimension and dip it the tank. The test is fully automatic and contamination results are given vs time. The chemistry is regenerated after each test by filtration.

Test chemistry circulation is obtained using a free maintenance pump and a set of valves providing the possibility to switch from regeneration to test circuit.

Very sensitive conductivity cell (0,0001 $\mu\text{S}/\text{cm}$) with integrated temperature probe can detect very low contaminant even on very small samples.

Sophisticated software offers the possibility to record and compare results with International Standards.

Characteristics	
Tank size	350 x 290 x 80 mm
Chemistry	50 or 75 % IPA / DI water
Resin	Swappable cartridge containing 1 litre of resin
Measure range	from 0.01 to 20.00 $\mu\text{g Eq NaCl} / \text{cm}^2$
Sensitivity	0.0001 $\mu\text{S}/\text{cm}$ or 0.003 $\mu\text{gEqNaCl}/\text{cm}^2$ for a pcb of 100 cm^2
Power supply	230 V AC 50 Hz , 110V AC 60 Hz in option
Weight	Around 17 kgs
Overall dimensions	L x l x h : around 510 x 315 x 590 mm (LxWxH)

