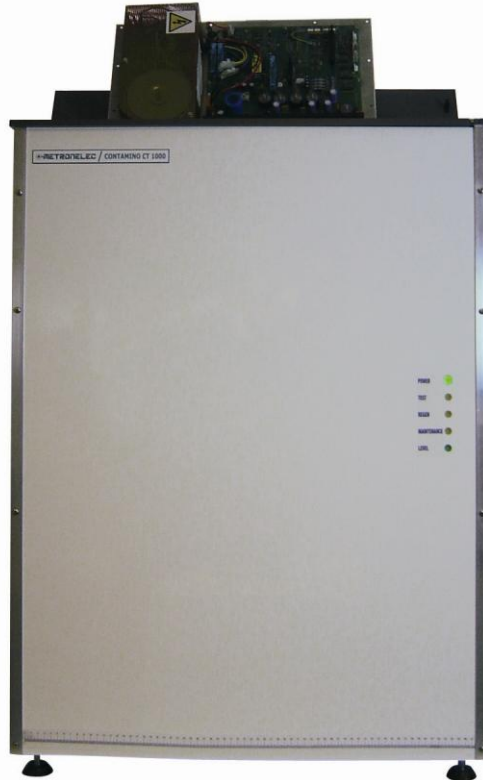




4/6 avenue Eiffel – 78420 Carrières-sur-Seine - FRANCE  
Tél. 01 30 15 20 00 Fax. 01 30 15 20 01  
E-Mail : [contact@metronelec.com](mailto:contact@metronelec.com)

## IONIC CONTAMINATION TESTER CT1000



The CT1000 is designed to make simple and accurate ionic contamination test on big boards (up to 500x500 mm) in fully compliance with MIL-P-28809, MIL-STD-2000A, DEF-STD 10/03, IPC-TR-583, 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.

| <b>Characteristics</b> |  |
|------------------------|--|
| Tank size              | 50 x 500 x 500 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 500 $\text{cm}^2$ |
| Power supply           | 230 V AC 50 Hz , 110V AC 60 Hz in option   |
| Weight                 | Around 40 kgs  |
| Overall dimensions     | L x l x h : around 800 x 315 x 1000 mm (LxWxH)   |

