



# AUTOMATED CHEMICAL SOLUTIONS

Chemicals and Controllers for PWB Fabrication

## Technical Data Sheet

### AUTOstrip RC-5030

#### Resist Stripper Controller



#### Description

The AUTOstrip RC-5030 provides accurate, reliable control for stripping processes. The AUTOstrip RC-5030 controls solution concentration, resist loading and, most importantly, process breakpoint. Automatic delivery of chemical concentrate directly from factory packaging minimizes chemical handling. The AUTOstrip RC-5030's user friendly, easy-to-install design allows it to be used with all conventional resist stripping processes.

#### Features

High quality process instrumentation  
 Automatic delivery of replenishment chemicals from factory packaging to the process  
 Compact, wall mount design

#### Benefits

Accurate, reliable process control  
 Minimizes chemical handling  
 Saves space and is easy to install

## Theory of Operation

Process breakpoint is the critical variable in controlling a resist stripping process. Maintaining a consistent breakpoint over a narrow range opens the process operating window and minimizes the chance for many of the major quality issues associated with stripping and subsequent processes. The two process variables that have the greatest impact on process breakpoint are working solution concentration and resist loading. Controlling these variables to good tolerances will produce a consistent and reproducible breakpoint.

A continuous process sample loop is drawn from the spray manifold, passes a pH sensor and returns to the process sump. As parts are processed, resist loading increases and the pH of the process drops. When the pH falls below the desired set point, the RC-5030 opens a solenoid and allows water to flow through the proportioning pump and into the process. The proportioning pump automatically draws concentrate directly from a drum and mixes it with the motive water at a set proportion that is independent of the water flow rate. This control strategy consistently maintains process breakpoint with less than 5% variation.

## System Requirements

Electrical	120 VAC, 60Hz, 10 amps
Dimensions	42" X 34" X 10" (H X W X D)
Water	1 – 10 gpm