



## Key Benefits

- Automated control cycle
- Recipe based control sequences
- Easy adjustment of the control parameters
- Real time calculation of F0
- Single page report details for proof of process and due diligence

Eye to the future | Window on the world

## Summary

The system was designed to automate the control of a small retort, used for teaching students and for research. The mechanisms employed were adapted from those used by commercial organisations for multiple retorts, with recipes to determine the cooking profile for different products. 20 different control parameters were also made available to allow the characteristics of the various stages in the process to be altered.

The control sequences also made use of 7 in-can thermocouples during the flood and cooling stages, and used a software three term controller to accurately adjust the steam flow throughout.

During the cook process, the F0 value is continually recalculated to allow the operator the ability to extend cooking times as required. On completion of a cook, a single page report can also be produced detailing the whole process as a trend graph and highlighting any alarm conditions that occurred.

## Equipment Used

- Intel based Pentium PC using Microsoft Windows 2000

- ADAM 5000E containing
  - 1 x ADAM 5013 3 Ch PRT
  - 1 x ADAM 5018 7 Ch T/C
  - 1 x ADAM 5017 8 Ch A/I
  - 1 x ADAM 5024 4 Ch A/O
  - 1 x ADAM 5052 8 Ch D/I
  - 1 x ADAM 5068 8 Ch D/O



If you would like to find out more about this application, please contact the sales office who will put you in touch with the original Systems Integrator.

Turnkey Systems - Automatic Retort Control