



## Key Benefits

- Automated control cycle
- Versatile, unlimited recipes
- Easy operator interface
- Unmanned operation
- Detailed process reports
- Reduced cycle time

Eye to the future | Window on the world

## Summary

The system was designed to perform automatic temperature and pressure control cycles for two large autoclaves. It provided a sequence of idle, ramp, dwell, cooling, depressurisation and purge stages. The exact ramp and dwell part of the sequence is determined by a recipe which allows up to 6 temperature / pressure ramps and the following timed dwells to be defined. Any number of the recipes can be configured in the system and then selected when the process is to be started.

Continuous monitoring of the process was performed to provide detailed process reports at the end of each batch and to allow signals to be checked against alarm levels. In the event of an alarm condition, both warning and emergency shutdown conditions were handled to provide appropriate responses.

As with any control system, low level alarm functions were provided to allow for unmanned running.

## Equipment Used

- CRL Series 1000 PLC containing
  - 2 x 16 Ch T/C A/I
  - 2 x 8 Ch A/I
  - 2 x 4 Ch A/O
  - 1 x 16 Ch D/I
  - 2 x 16 Ch D/O
- 2 x CRL 210 Indicators
- 2 x CRL 452 Controllers



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 - Autoclave Control and Process Monitoring