



Key Benefits

- Automatic control sequences
- Central storage of all schedules, test data etc.
- Batching of schedules for increased unmanned running
- Continual monitoring for alarm conditions

Eye to the future | Window on the world

Summary

In-depth checks on engines from the production line or returned by customers are undertaken in four test cells, each of which has a cell computer to control a throttle actuator and dynamometer. A supervisory machine is also used to act as a central file server and an arbitrator for an Emissions Cart.

Automatic tests are run according to pre-defined schedules which contain the required speeds and torque, auxiliary parameters such as fuel temperature, and details of phase specific alarm conditions. Series of test schedules are then run in sequence on an engine, without the need for human interaction.

Key signals are monitored for alarms, based on the current engine conditions. In the event of a fault, a controlled or emergency shutdown routine is run to stop the engine safely and at the same time, a shutdown log is produced to show all signals during the last two minutes.

On completion, test data is transferred from the cell computer to the server where it is available to engineers' office based PCs.

Equipment Used

- 5 x Motorola based machines
- 6 x Eurotherm 94C Controllers (Existing Equipment)
- Horiba MEXA 9000 Emissions Cart (Existing Equipment)
- Plug in cards included
 - 8 x BVME250 16 Ch A/I
 - 4 x VADI-3 16 Ch T/C A/I
 - 4 x VADI-3 16 Ch RTD
 - 1 x PBDAC3 4 Ch A/O
 - 1 x PBDIN3 16 Ch D/I
 - 2 x PBREL 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.