Key Benefits

- Radio telemetry enables installation without disturbance
- View real time conditions
- Automated door sequence control secures clean environment
- Provides verifiable data for audits

Eye to the future | Window on the world

Summary

The requirement was to monitor temperature, relative humidity and pressure across 15 areas within a clean room facility and supervise access control (interlocking) of 17 roller doors that interconnect rooms within the facility.

The system uses an industrial PC running Prodigy software. Compact radio telemetry data logging modules send temperature, relative humidity and pressure to a base radio station connected to the PC, which continuously records the data.

An operator screen provides an overview display of the clean room with colour coded temperature, humidity and pressure indicators showing normal and alarm states. Clicking on the overview switches to a detailed display of the chosen area that shows current measurements, a real time and historic trend of that areas data and allows local alarm settings to be changed.

The system also handles the complex sequence of door interlocks required. Several of the doors are required to remain closed if one or more doors are open or if they have been closed for less than a pre-set time period. The system ensures that the door sequence combinations are met otherwise triggering an alarm if any door is opened when it should not be. Door status is recorded for display on trend graphs for analysis as required.

Equipment Used

- Intel based Pentium PC using Microsoft Windows 2000
- Signatrol SL400 Base Station
  15 x SL412-1 transmitters
  15 x SL419 transmitters
- ADAM 5000 containing
  4 x ADAM 5018 7 Ch T/I
  1 x ADAM 5052 8 Ch D/I
  1 x ADAM 5068 8 Ch R/O
- MSL SOLO
  11x Relay output D/I module

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.

Application Notes - Clean Room Monitoring

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