Turnkey Systems - Jet Engine Test System

Key Benefits

- Automatic report generation
- Customised interactive operator displays
- High accuracy reporting of test results
- Flexible test sequence data recording

Eye to the future | Window on the world

Summary

Testing of aircraft jet engines after maintenance and prior to refitting is vital for reliable and safe operation. Each engine test requires a log report providing details of the engine, all relevant test parameters and the engineers who supervised the test.

For each test the engine is run through a test sequence. Dependent upon the resulting data it may be necessary to rerun steps in the sequence in any order.

Three engineers conduct each test acting as Operator, Recorder and Controller. Each engineer has a monitor screen for monitoring the test data and any alarm conditions to occur. Data is displayed using a combination of dials and trend graphs with the Operator having a different screen configuration to the other test engineers.

41 different parameters are measured including thrust, temperatures, pressures, flows, speeds, vibrations, frequencies and fluid levels. From this data other 'corrected values' are automatically derived by the system, normalised to standard day sea level conditions.

Datalogger units are used to acquire most data parameters. Thrust data is collected using a specially configured load cell and display with serial communications. Data such as engine type, serial number and test engineer names are entered manually into the system

Test reports are generated after each engine test to verify satisfactory running.

Equipment Used

- Intel based Pentium PC using Microsoft Windows 2000
- Status Instruments MEDACS data acquisition units
- London Electronics Display

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.

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